

# LIFE

STORY OF AN INCREDIBLE MAN  
**GENIAL MASTER SWINDLER**

TWO GREAT SERIES CONTINUED  
**OLD AGE: NEW DEALS FOR AGED**  
**DARWIN: LOVELY CORAL ISLES**



**JOHANSSON ON VACATION  
WITH HIS FRIEND BIRGIT**

**JULY 20, 1959**





*Good tip from your waitress.*

**“The best to you  
each morning”**

Best liked (*World's favorite*)

... Best flavor (*Kellogg's secret*)

... Worst to run out of

**Kellogg's** **CORN FLAKES**



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# Why trade your headache

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## Bufferin® gives twice-as-fast pain relief without upset stomach!



**1** Aspirin can cause stomach upset! All 3 leading pain remedies contain aspirin, (a) Bufferin, (b) the remedy advertised as a "combination of ingredients" and (c) plain aspirin. But aspirin alone is acid, *acetylsalicylic acid*. It can increase stomach acidity, upset your stomach.

**2** Bufferin protects against stomach upset! Only Bufferin adds to its aspirin Di-Alminate®, an exclusive combination of two special anti-acids, that protects you against the *aspirin irritation* so often associated with the other two leading brands of pain relievers.

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**FOR SAFE, FASTER RELIEF** of headaches, muscular aches and pains, neuralgia and painful cold miseries, take Bufferin, the modern pain remedy. It contains no nerve-jangling, sleep-disturbing caffeine.

**Bufferin acts twice as fast as aspirin for millions . . . even faster for many others!**





## PICTURES PROBE THE MYSTERIOUS

There's nothing like a good mystery story for reading, but in real life the clues and motives are seldom satisfactorily organized. When mystery men make headlines, the accounts seem to stop short of the paragraph which would have told all.

We are always involved in journalistic detective work and we have two solid assets to help us. We have time to investigate thoroughly and thoughtfully. And we keep in close touch with reality by building our stories around pictures of the human protagonists.

This week we deal with several mysteries. What kind of man can steal \$14 million and evade police around the world? Most reports about swindler



WHEREABOUTS UNKNOWN

Lowell Birrell describe his financial machinations but do not get at his character. We do—by looking back into his past (pp. 19-25).

How does Egypt's modern sphinx, Abdel Nasser, explain all the faces he presents the world? We have invited Nasser to disclose his purposes (pp. 96-110).

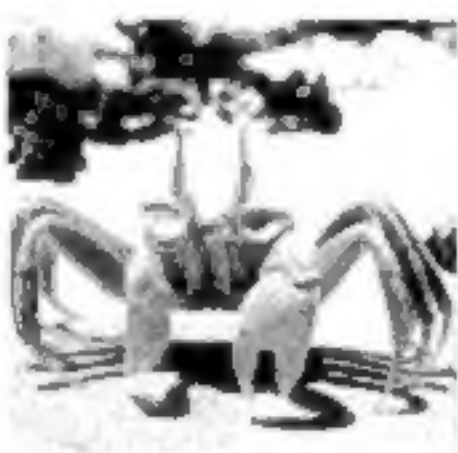


MOTIVES ENIGMATIC

For centuries, a classic mystery of natural science concerned the coral atolls. How were they built up from the sunless bottom of the ocean by tiny animals which needed sunlight to live? One of the greatest detectives of science, Charles Darwin, solved this mystery and we give his solution with lovely color photographs on pages 54-68.

The English millionaire who paid \$770,000 for a Rubens painting poses a whodunit. We can't tell his name, but we do shed light on what prompted his fabulous bid by showing the painting he bought—and in full color too (p. 77).

In probing mysteries our main tool is the photograph, always a revelation where people are concerned. On swindler Birrell we made a photographic find exposing the master crook as everyone's clown—who was nobody's fool. You have undoubtedly heard stories of mysterious two-headed dogs in Russia. Now you can see them and learn how they are created (pp. 79-82). A lot has been



HABITAT MYSTERIOUS

said about Eisenhower and art—but on pages 28, 29 we reveal something new about the President's feeling for painting. This is a picture for history books. So in a lighter way is the picture of the little boys on page 116 solving for themselves an old, old mystery.



OWNERSHIP ANONYMOUS

### COVER

Ingemar Johansson and his friend Birgit Lundgren lean over the edge of a swimming pool in Pompano Beach, Fla., where they visited friends before returning to Sweden (see pp. 35-38)

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21—21—BUT. LT. N.Y. DAILY NEWS  
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ACTUALLY  
PENETRATES  
YOUR  
HAIR



There's no other Hair Tonic Formula like penetrating Wildroot Cream-Oil!

**NO ALCOHOL—NO GREASINESS**



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The penetrating Wildroot Cream-Oil formula keeps hair groomed longer . . . makes hair feel stronger . . . a real improvement over grooming an ordinary way!



**PROVED BY THE HAIR TORTURE TEST!** The Hair Torture Test gives hair more abuse than 7 days outdoors in windstorm, dust storm and summer sun. Hair groomed an ordinary way quickly dries out, gets brittle. Hair with Wildroot Cream-Oil care stays manageable, feels strong and healthy.



**Make hair obey all day with WILDROOT CREAM-OIL!**

This One



PDKZ-L3W-GWBB



# Don makes sure the sun will shine

1.



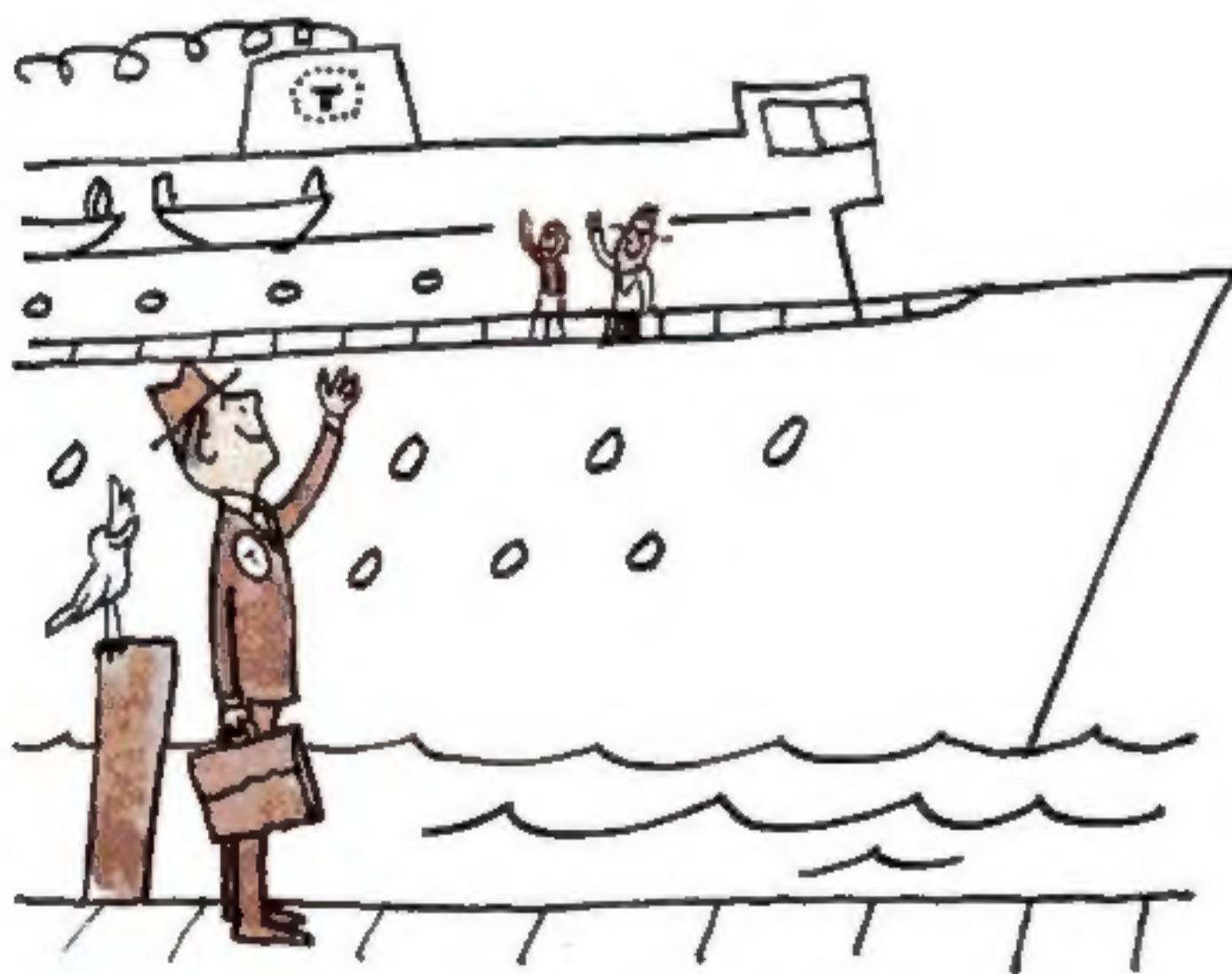
The seaside sun shone brightly down. Don Lane lay in the shade.  
The joyous waves, the zephyr's sigh, sang him their serenade.  
And sweet was his vacation sleep—dull care had fled his dome;  
His worried wife awakened him. "You *sure* all's safe at home?"

2.



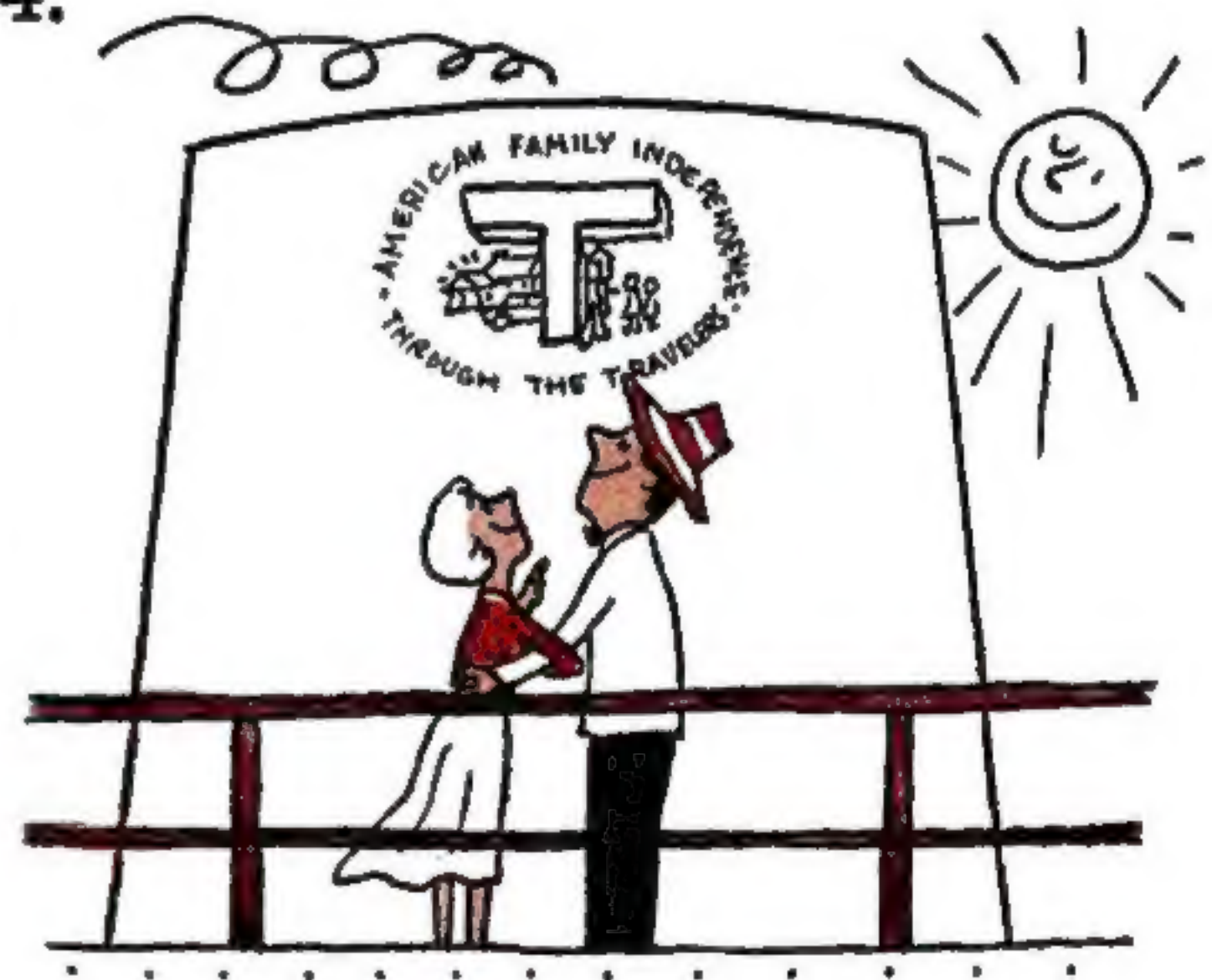
"Don't fret, my pet," soothed Mr. Lane, "The Travelers covers all.  
In hamlets, towns and cities Travelers men are on the ball.  
So if a thief invades our home—or nature cuts some capers—  
We'll have our agent by our side before it hits the papers.

3.



"With Travelers life insurance to pay off our mortgaged home,  
Or take us in retirement years across the briny foam . . .  
We've balanced, sure protection. We can face the future free—  
For life, health, home and auto nestle under Travelers' 'T'."

4.



We leave the Lanes beneath the sun—the place where they belong;  
American Family Independence makes their life a song.  
It can be *yours*, made painless in a monthly payment plan  
To fit your needs and income. Call your trusty Travelers man.

You can protect your *whole* good way of life through

## THE TRAVELERS

### Insurance Companies

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All forms of personal and business insurance including Life • Accident • Group • Fire • Marine • Automobile • Casualty • Bonds





1. Get to know great people. Botanist Luther Burbank's house and gardens in Santa Rosa are as he left them—down to the last tool. Explore a little, and you'll be close to famous names in *your* area.

## Your car makes any map a Magic Circle

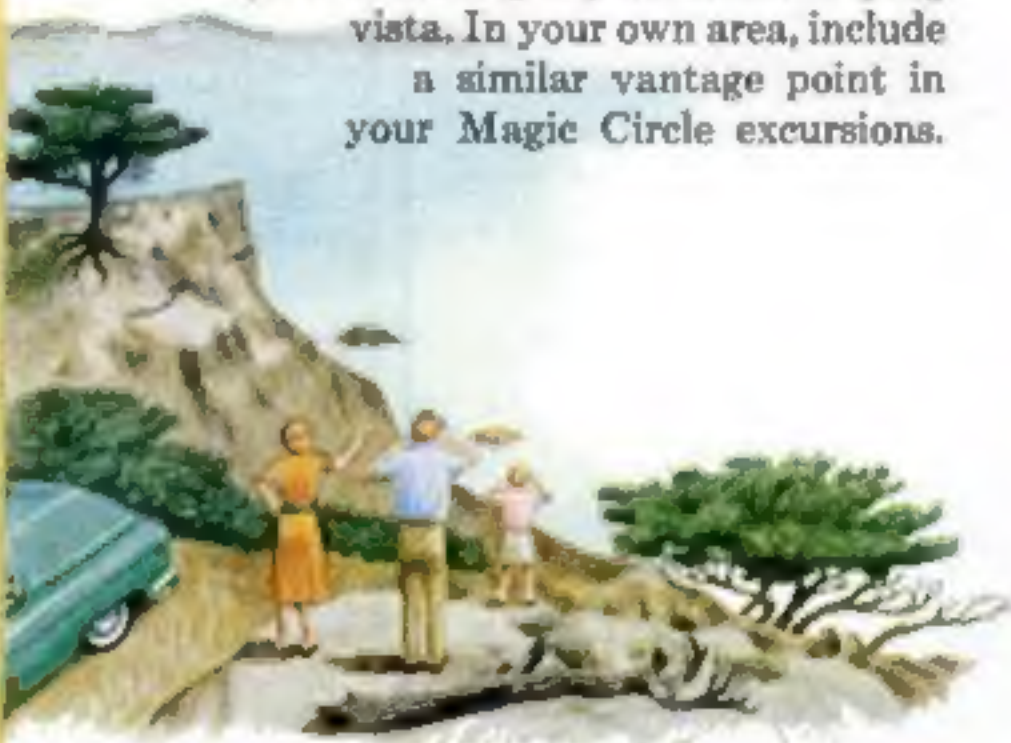


In this Golden Gate Magic Circle, your car puts you on the threshold of a whole wonderful world of fun. And all around you is a Magic Circle just as attractive—head out of your driveway to find it.

This series of advertisements is published by Ethyl Corporation, to help you get more enjoyment out of your car. Ethyl Corporation manufactures "Ethyl" antiknock compounds, used by oil companies everywhere to improve their gasolines and your driving pleasure.



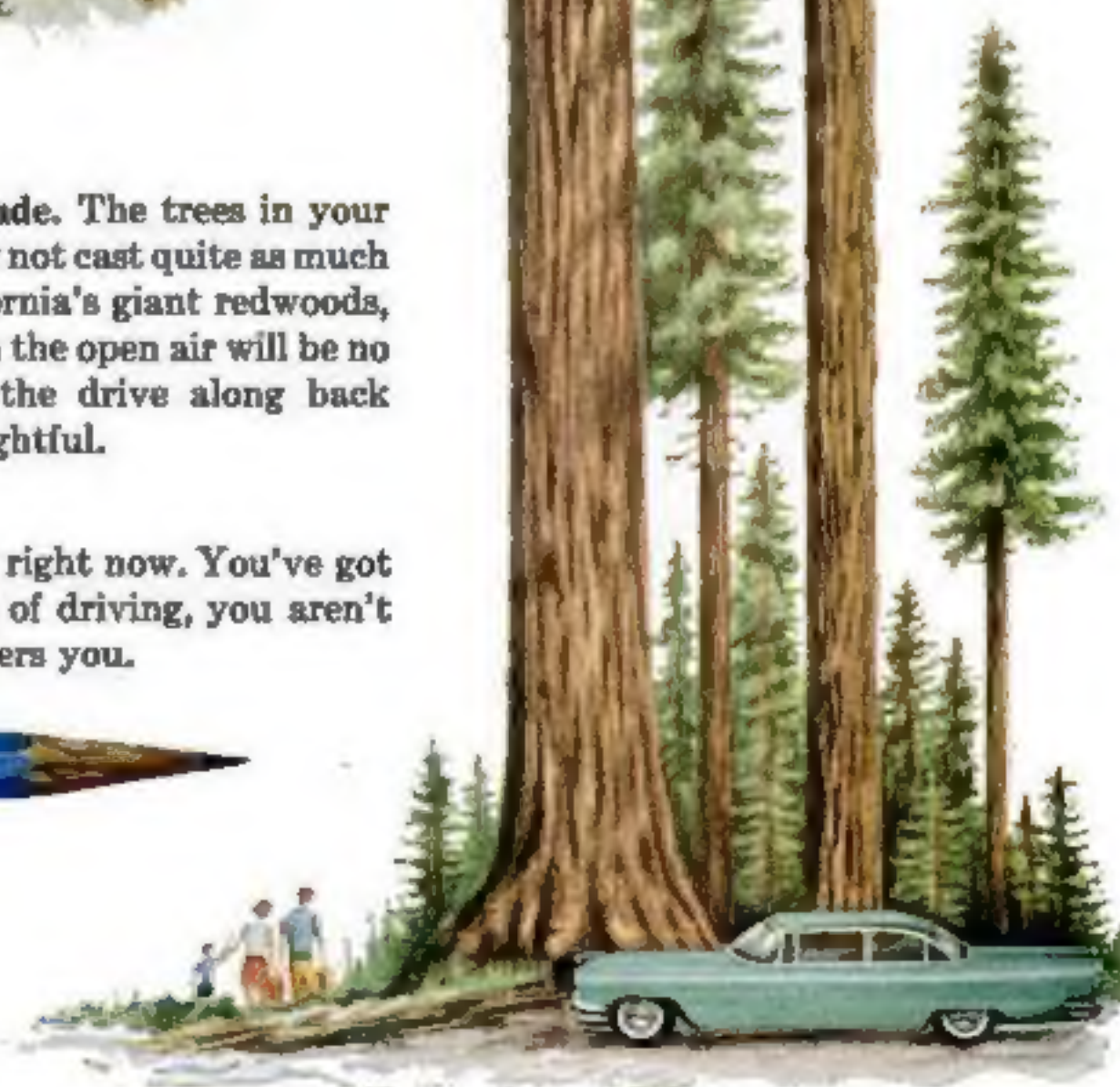
2. Find a lookout spot. Rock-ribbed Point Lobos, at the southern end of Monterey Bay, gives motoring explorers a sweeping vista. In your own area, include a similar vantage point in your Magic Circle excursions.



3. Get next to your local history. Highway 49 leads through California's gold rush country—through Sutter Creek, Angels Camp, Placerville. In your Magic Circle, the roads lead just as surely through exciting pages of history.

4. Picnic in the shade. The trees in your Magic Circle may not cast quite as much coolness as California's giant redwoods, but your picnic in the open air will be no less appetizing—the drive along back roads no less delightful.

5. Take a pencil and map out your Magic Circle right now. You've got the car, and if you're missing out on *this* kind of driving, you aren't enjoying half of what your car investment offers you.







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# *Great Hearing Aid News*

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HEARING AID MANUFACTURER*

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Now, in addition to famous "Living Sound" quality of performance, Zenith brings you substantially smaller size and inconspicuous styling in its remarkable new "Diplomat" Hearing Aid!

Almost 30% smaller than previous Zenith models of its type, the "Diplomat" can be worn snugly and comfortably, weighs only one-half an ounce with battery. Slips on or off easily, lets you hear the telephone at ear level. And in spite of its small size and light weight, the "Diplomat" is full-powered, with four-transistor "Living Sound" circuitry.

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*There are 11 Zenith Quality Hearing Aids—each sold on a 10-day money-back guarantee, 1-year warranty, and 5-year After-Purchase Protection Plan.*

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Every Week!  
Ten Weekly  
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Radio Sets!*

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**250 PRIZES  
IN ALL!**

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■

Nothing to buy! No obligation!  
Simply go to your Zenith  
Dealer for contest entry blank.  
Enter today! Your Zenith  
Hearing Aid Dealer is listed  
in the Yellow Pages.





**RIDING MERCURY**, as an airborne straphanger, Carolyn rests on a wing and finds a comfortable reading position.

**REFUSING A LION** (*below*), she looks disapprovingly on the long tongue that greedily licks out at ice cream cone.







**PLAYING CAESAR**, Carolyn names the greatest of a plaster bust of emperor of Rome

## Prankish Girl's Gags in Plaster

Carolyn Jones, once Hollywood's sweet success, lives in a more gothic world. A playful humor, *Walking across the Water* Brothers hot recently with *The Photographer* Allan Grant, she discovered a collection of plaster props just the right kind. I stop for her jokes. As a Roman character, she had trouble with a wrong way horse. She outbroke on the winged foot of the gods, meso, got into a spat with a terracotta, and into a serious tête à tête with a Caesar.

Carolyn's sense of humor helped her move up in the movies. Coming to Hollywood from Amarillo, Texas, she began playing bit roles in TV and westerns. She made her film mark by her comic caricature of a Greenwich Village girl in *Bachelor Party*. An established star at 26, she is now appearing with Frank Sinatra in *I Hope in the Heart* and will soon be seen in a serious role opposite Dean Cain in *Crucial*.

← **REINING IN HORSES**, Carolyn finds self in a classic predicament: going two directions at once



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See how "Ounce of Prevention"  
**SAFETY DISCS**  
prevent deadly skids  
as no other tire can



#### ARMSTRONG TIRES Safety Discs Keep Tread Open

Over 1,000 Safety Discs, molded between the tread ribs, keep the tread edges apart, always ready to grip, prevent skids. Like the fingers of the fist above, the tread can't squeeze shut even under heaviest braking pressure.

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**EXTRA SAFETY AT NO EXTRA COST!**  
Armstrong "Miracle" Tires give you unmatched protection against today's commonest hazard, skids. They keep you safer on any road, at any speed, in any weather — yet cost no more. And compare the guarantee you get on these rugged tires! Look in the Yellow Pages for your nearest Armstrong Tire dealer. See him soon.  
Armstrong Rubber Company,  
West Haven, Conn.

Makers of Armstrong

*Pure Foam*

for furniture and bedding



# Only ARMSTRONG has it!



# The most important 30 seconds in the life of your car

As indicated by numerous tests, the most important 30 seconds in the life of your car is the first 30 seconds after starting the engine.



1 out of 2 cars are now using  
oil that is "worn out"

Samples of motor oil were taken from over 15,000 cars in a nationwide survey. Analysis of these samples showed that 54% were contaminated—in effect, worn out and unfit for use. Your oil may be worn out—that's why it's important for your Shell Dealer to make this check.

Shell X-100 Premium is 3 motor oils in one. It gives you *unfailing* lubrication at all engine temperatures.

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It's 3 Motor Oils in 1





What fun for your fingertips! Eight new Frosted 'Bon Bon' colors...  
so delicate...so feminine...in such good taste. Match them  
(as they do on the Riviera) to your gowns, your jewels—or contrast them!  
It's the chic new way to look—surprisingly subtle...but ooh la la!





C'est si bon?  
... Mais non!

C'est les  
'BON BON'S'  
de Revlon

Delicious New Pastel Colors...  
in 'Frosted Finger-Tints' for Summer  
Très Chic! Très Magnifique!

'BON BON'  
nail enamels

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- o CHAMPAGNE TAFFY
- o VIOLET CREME
- o PINK COCONUT
- o PISTACHIO MINT
- o BUTTER PECAN
- o SUGAR BLUE
- o PLATINUM

(Taste one...taste four...taste them all!)



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Pardon our 'Frosted French'...  
but isn't it fun!





"So good in glass"

Glass jars keep moisture out, seal aroma and flavor in. In glass, instant products keep their strength to the very last serving.

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# LETTERS TO THE EDITORS

## ANTIQUES

Sirs,

Congratulations on your article, "U.S. Craze for Things Past" (LIFE, June 29). By price-tagging everything you certainly showed that many antiques actually cost a lot less than their modern descendants. Best of all with the Gypsy Rose Lee piece you showed people that collecting is really fun and can be profitable.

C. J. NUTTALL

New York, N.Y.

Sirs,

A sweep of the hat and a bow to you for a job well done. But may I ask how you obtained the prices quoted? Some seem quite high.

LAURA D. TEMPLE

North Chatham, N.Y.

• The prices listed were those quoted by dealers for the specific items pictured. As LIFE pointed out, similar pieces may cost more or less elsewhere.—E.D.

Sirs:

There may be a "Den of Iniquity" antique shop in Santa Monica but, as you can see from the enclosed photograph, it is certainly not Boss Lewis and May Straub's antique store.

PHYLLIS CHESTER

Los Angeles, Calif.



DEN OF ANTIQUITY

Sirs:

Gypsy Rose Lee says that she bought a pair of bronze herons in New Orleans which were fakes. Last year your readers got the impression that we in New Orleans do a thriving business in fake bronze herons, we would like it known that there has been an average of only three complaints per year for the past 12 years regarding the antique shops in the old French Quarter.

JAMES W. BARR

New Orleans, La.

Sirs:

You say it is fair to "haggle and bargain when buying antiques." As a dealer I resent this, and I feel sure other antique dealers feel the same way.

LEONARD GAZIV

Los Angeles, Calif.

## THE FALL OF STRAUSS

Sirs,

I am aware that in citing the charges against Mr. Strauss ("Passions and Stratagems in the Fall of Strauss," LIFE, June 29), you were simply explaining

why the Senate voted as it did, rather than examining the actual merits of such charges.

Now that the political passions have vented themselves, I would like to offer a brief examination in the interests of objectivity. I acted as Mr. Strauss's adviser and counsel throughout the hearings.

The charge that he had withheld atomic information from Congress was rebutted by Senators Pastore and Hickenlooper of the Congressional Joint Atomic Energy Committee, whose Senate members actually voted 7 to 2 in favor of his confirmation.

The record of the hearings shows that he consistently favored the export of isotopes for medical purposes. He resisted such export when the isotopes were to be used for other purposes, especially military.

The testimony of the hearings disproved the allegation that he was "obsessed with secrecy." Senator Pastore and others effectively countered Senator Anderson on this point.

He never requested secret or confidential information, as was charged, about a witness who was hostile to him in the hearings. He made only a routine inquiry as to whether the witness was employed and cleared by the AEC, and if so, in what kind of work he was engaged.

As far as the Dixon-Yates controversy is concerned, the Attorney General earlier this year wrote to Senator Kefauver that in the Dixon-Yates case there had been no findings by the Department of Justice "which reflect adversely on Mr. Strauss in any way."

ROBERT J. DODDS, JR.  
General Counsel

Atomic Energy Commission  
Washington, D.C.

## EDITORIALS

Sirs,

The issue at stake in the Kral case ("Can Good Teaching Be Illegal?" LIFE, June 29) cannot be simply defined as a conflict between good teaching and bad. It involves the state's attempt to ensure at least a minimum conformity to certain established basic educational standards. A court ruling in the Kral's favor would, in effect, permit anyone to withdraw his children from school, ostensibly to receive an "education" at home. This education might assume the guise of full-time practical work experience in tending gasoline pumps or plowing fields.

JEROME K. CRAMER

State College, Pa.

Sirs:

Thank God people like the Kral's have the courage to stand up for their right to provide a superior education. Parents should be allowed to educate their children as long as the children can pass state examinations showing that the home education is at least maintaining the standards of their district schools.

M. D. ROSTOKER

Allston, Mass.

Sirs:

The Kral's have broken the law. The law is clearly wrong. Let's change it.

MRS. R. P. CROUSE

Mt. Baldy, Calif.

Sirs:

I believe that Tommy Kral is being spoiled. His mother, as a teacher, is giving Tommy all the attention, whereas in public schools we are more on our own. When Tommy grows up, he probably won't be very sociable and he probably won't get married because he won't know how to get along with people. I have seen nothing soupy about my six years of public schooling.

APRIL HONE

Avon Lake, Ohio

Sirs,

LIFE's recognition of the need for further funds for cancer research is welcome ("Let's Speed Cancer's Defeat," LIFE, June 29). A strong government program is needed, accompanied and stimulated by a strong voluntary agency.

The American Cancer Society has a fine record in helping initiate and sustain the nationwide program of research, in training scientists and physicians, in helping the rehabilitation of patients and in informing millions of people on how to guard themselves and their families against cancer.

LIFE seems to feel that the solution for too many health funds is one big health fund. We question this

enthusiasm for a single, massive agency which has no experience in the field of cancer control.

EUGENE P. PENDERGRASS, M.D.  
President

American Cancer Society,  
New York, N.Y.

Sirs,

The statement that we "are spending \$155 million on agricultural research, in effect putting the health of the barnyard ahead of the conquest of cancer," is not consistent with the facts. The Eastern Utilization Research and Development Division of the Department of Agriculture is concerned with helping the farmer and also is directly engaged in cancer research.

Its Plant Steroid Investigations unit has been busy for 10 years examining about 10,000 plant samples for cortisone precursors. It has sent thousands of these plant extracts to other institutions, both governmental and private, which are engaged in intense cancer chemotherapeutic research.

ASHLEY ROACH

Philadelphia, Pa.



## MISCELLANY

Sirs,

A few days after I took that kissing picture of Kay Kendall and Yul Brynner ("A Fringe Benefit," LIFE, June 29), I photographed them again from a different angle. As you can see I did find out what happens to noses when people kiss head on: it's exactly the same thing that happens to chins.

ROBERT LANDRY

Paris, France

## AFRICAN WILDLIFE RESCUE

Sirs,

Bring an animal lover I was thrilled with your story and pictures of the African wildlife rescue ("Gallant Men in Noah's Job," LIFE, June 29).

I think it was John Ruskin, the noted English art critic, who said, "You cannot sympathize rightly with man unless you also sympathize with animals."

KATHRYN TRUDY

Detroit, Mich.

## ODDBALL SONG HITS

Sirs:

In your article "Outbreak of Oddball Song Hits" (LIFE, June 29) you missed the oddest of them all—the *Gila Monster*, a touching story of a Gila monster in search of a Shetland monster. As if the song wasn't crazy enough, some teen-agers on a bandstand show introduced *The Gila Gap* (pronounced Hela Hop).

E. D. WOOD

Dallas, Texas

LIFE 540 N. Michigan Avenue, Chicago 11 Illinois



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# If you buy life insurance which can provide good answers to all these questions, it's probably a New England Life policy

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When you buy life insurance you can't predict what the conditions will be in your future or your family's future. Consequently, the provisions in your life insurance policy should be numerous enough and generous enough to meet a great many possible situations.

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NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY, BOSTON, MASS.

*The company that founded mutual life insurance in America • 1835*



How generous are the provisions if you want to change your policy from an "ordinary" life to a retirement plan, or vice versa?

Will you have the widest choice of ways by which money in your policy can be paid to you? . . . the widest choice of ages at which you can retire? . . . and will you continue to share in the company's earnings?

Is the company currently paying a lot more than the guaranteed interest rate on funds left on deposit?

Will you be able to use dividends to pay up your policy ahead of time?

Can you use dividends to increase the amount of income you'll get from the policy or the amount your beneficiary will get?

Will the net cost per \$1000 of your insurance be lower if you buy \$5000 or more?

Can you arrange for automatic loans to pay your premiums?

If you don't keep up your premium payments, can you still maintain some insurance? Even after the "grace" period has expired, will you have opportunities to pick up where you left off regardless of physical condition?

Will payment for coverage beyond the month of death be refunded?

If you want to pay premiums semi-annually, quarterly, or monthly, how favorable are the terms?

Is the cash value of your policy available at *any* time?

Does your company offer an unusual number of ways of adding extra protection to the basic policy you buy? How does the cost of such "riders" compare? Can you more than double your coverage at exceedingly low cost?

Can you add protection on the members of your family to your own new policy?

Will you be able to add term or permanent insurance to your policy automatically with your dividends?

Will the provision guaranteeing an additional payment in case of accidental death be in effect after age 65? . . . and will still another extra payment be made if death results from a passenger accident in a commercial plane, train or bus?

Can a young man get a policy rider which allows him to buy more insurance in the future without medical examination and regardless of physical condition?

Do women qualify for lower rates?



Buying life insurance is not a do-it-yourself job. You will need the competent and trustworthy help you will get from a New England Life representative. He's a specialist in *fitting life insurance to your personal needs* and has the advantage of working with the "Better Life" policy.

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**A BETTER LIFE FOR YOU**



WHEN YOU'RE FEELING  
"HEAT-BEAT"

(TENSE, IRRITABLE, HEADACHY)



TAKE A "BAYER BREAK!"



How the "BAYER BREAK"  
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1. First take two Bayer Aspirin for your headache.
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3. This brief rest plus Bayer will have you feeling better fast, so you can face the heat with a smile. Try it.

Make this promise to yourself—when you feel headachy, worn down, and tense, stop—take a "Bayer Break." You'll find it's not only sensible, but rewarding. For two Bayer Aspirin and a few minutes of relaxation quickly relieve that fretful, headachy feeling often caused by the hot weather.



You see, thanks to Bayer's newly discovered *instant flaking action*, a Bayer tablet enters your stomach—not whole—but in soft, tiny flakes. So there's no waiting for relief until the tablet disintegrates. Bayer Aspirin is ready to go to work *instantly*, to make you feel fine in practically no time.

**BAYER**  
BRINGS FASTEST RELIEF

the fastest, most gentle to the  
stomach relief you can get from pain!



# LIFE

Vol. 47, No. 3 July 20, 1959



## WANTED

Sought by the New York police, Lowell Birrell has been indicted for grand larceny in stock frauds totaling millions of dollars. He has been reported "missing" from U.S. since the fall of 1957.

## BUFFOON FINANCIER SWINDLER



AN INCURABLE, HAM, SWINDLER BIRRELL PLAYED GENERAL HENRY KNOX IN COLONIAL DRAMA NEAR NEW HOPE, PA.

# A MASTER ROGUE UNMASKED

by HERBERT BREAN

The jolly buffoon shown in both serious and playful mood above is a man of many, many sides. He is a high-I.Q. financier. He is a high-living hell-raiser. He is a highly regarded host and was once a highly capable lawyer. He is also being sought, high and low—as earnestly and widely as any living American. He is Lowell McAfee Birrell, 52, 5 feet 8 inches, 205 pounds.

Last week he became the object of a 49-state alarm and throughout the world U.S. consulates were also asked to watch for him. Many

men had worked late in the New York District Attorney's office trying to unravel his machinations. Friendly, likable Lowell Birrell had just been indicted on no fewer than 69 counts of grand larceny.

According to New York District Attorney Frank Hogan, Birrell bilked his stockholders out of at least \$14 million. Because of the inscrutable maze of his stockholdings, in an empire including oils, paper, gas, airlines, insurance and chemicals, the total may be much

more. Birrell did not get all that money free and clear—"but he tried," said Hogan almost admiringly. He got away with some \$3 million and before that apparently charged off large parts of his gaudy way of life to his companies.

The SEC had first begun to smell the rat in the winter of 1956-7. There seemed to be undue activity in Birrell stocks, and the money-lenders were beginning to sell stocks held as securities to get back what money they could. Accordingly, in May 1957, a U.S. marshal made

CONTINUED



# BIRRELL'S ROUTE TO RICHES . . .



**TAKING THEM FOR A RIDE.** Birrell runs a party for heads of the Camden Forge Co. (above), hauls

them around his farm (right) after getting control of firm in 1954. Firm ended regular operations in 1957.

## MASTER ROGUE CONTINUED

his way into a horse show at Birrell's Pennsylvania farm and handed him a subpoena.

What no one knew was that Birrell had been consistently and ruthlessly milking the stockholders of his many companies, stealing the assets of good companies and either selling them outright or transferring them to other companies where only Birrell could get at them. And he got at them.

Last week when the news broke, Birrell was variously reported to be in Paris, Caracas, Guatemala City and Havana. Actually he had been more or less missing since October 1957 when he found it convenient to leave for Havana "under the care of a physician." At that time

he was wanted only to testify in an SEC case, but now the 69 criminal indictments have placed him squarely in the ranks of history's great stock swindlers. Who was Birrell, and how did he get that way?

Lowell Birrell was born in Whiteland, Ind., on Feb. 5, 1907, one of five children of a poor (\$900-a-year), hard-preaching Presbyterian minister. The Reverend Mr. Birrell moved from one small congregation to another. But his son Lowell is still remembered in Wilson, N.Y. as a "bright and cute dark-haired boy" that the parishioners liked to fuss over. He was "lively and full of fun" although the family lived a threadbare existence in an old house. Years later Birrell confided to a friend: "I decided early I wasn't going to be poor."

His first step from poverty toward wealth took him to Syracuse University and then, at the age of 18, to the University of Michigan Law School. The normal minimum age for entrance was then 19, but Birrell's Syracuse record was promising, and Michigan never found reason (until recently) to regret admitting him. "He was a brilliant guy in law school," a classmate remembers. "Probably the top student in the class." At only 21 he got his doctor of law degree with an academic average of 3.6 (4.0 is perfect). This record is all the more remarkable since he had to earn most of his way through school, doing stenography and secretarial work. The dean wrote letters recommending Birrell ("sound character, of untiring industry") to six top U.S. law firms. The well-known New York firm of Cadwalader, Wickersham and Taft hired him.

He proved a splendid law recruit. Dark, extraordinarily charming and extraordinarily capable of instantly grasping the finest points in a case, Birrell quickly distinguished himself. He later formed his own law firm, but despite

his success, he began hungering for a bigger income, or perhaps he just saw a better opportunity. His interests turned to business, and he formed a company composed of a number of small breweries which he amalgamated into the Greater New York Breweries. Then, according to his onetime associate, Stewart Hopps, now of San Francisco, an odd thing happened.

Around 1944, says Hopps, Birrell met an insurance underwriter and broker named Cecil Parker Stewart. Stewart confided to Birrell that his doctors had told him he was hopelessly ill of an incurable, inoperable cancer and had warned him he had only six months to live. Birrell told Stewart he knew of another man who, in the same predicament, tried a certain Peruvian doctor whose methods were not



**RIISING LAWYER.** Birrell counseled Yankee Pitcher "Lefty" Gomez (left) in a 1938 separation suit

**SIGN OF SUCCESS** Birrell could show by 1947 → is handsome farm he purchased in New Hope, Pa.







exactly approved by the American Medical Association. But the results had been miraculous. Stewart went to the Peruvian doctor.

Shortly after, Hopps says, Stewart's pain disappeared and "the ting started shriveling up." Overjoyed and grateful, Stewart made Birrell a director of every one of his companies, named him executor of his will, went to Palm Beach and lived happily ever after—for five months. Then he died, just as reliably predicted. But now Birrell was not merely in business; he was in many businesses. No one knew how many, perhaps not even Birrell himself.

In any case, he made the money he had always wanted, for he was an astonishing man. He had a phenomenal memory. He remembered figures and statistics as if they were engraved

on his brain, and he could recall every term of a contract years after he had read it. "He didn't read in the ordinary sense," one of his close business associates recalled last week. "He just looked at something page by page and grasped it instantly. I think he read every word of every New York newspaper every day, and could quote it later. I don't know that he ever read many books, but he was cultured." Said a prominent New York lawyer: "I've never seen a man who could look at a legal document and extract the important aspects so fast." There can be little doubt that one of the legal documents Birrell not merely grasped but concentrated on with astonishing results was the SEC rulebook, for he not only understood it but demonstrated its weaknesses to the SEC

Birrell also possessed astonishing physical strength and recuperative powers. He could go three days on cat naps, often resting his head on a nightclub table for a few moments or slouching briefly in a phone booth. He drank heavily, but after a night of pub-crawling he would show up at an office alert, organized and eager for work. "He'd drink a lot," said a non-admirer admiringly, "sleep for 30 minutes and wake up bright and sharp."

Drunk or sober, he was always affable and seldom took himself seriously. He liked jokes and could be kidded, never boasted or tried to impress others, loved to pick up nightclub checks, dressed in conservative financier style (blue suit, dark tie, white shirt), was considerate of the lowliest employees, was generous with

CONTINUED





# ...IN THE DEVIOUS FOOTSTEPS OF GREAT MONEY

## MASTER ROGUE CONTINUED

bonuses and scrupulously honest in his personal relationships.

The many women in his life (including three wives) loved his friendly dynamism and sometimes seemed to comprise an informal Lowell Birrell Fan Club. Men liked him too. Said Band Leader Paul Whiteman, a neighbor, "I know he 'took' some of my friends, but I can't really dislike him." Said a New York businessman whose well-built company he looted: "I bear him no animosity. If he walked in the door now I couldn't hate him, and if he needed a few hundred bucks he'd get it."

Birrell wanted an industrial empire, but he was impatient and could not wait to build it. Long before he came to SEC attention, he began going after it the fast way. He operated from a series of swank New York hotel suites—the Park Lane and other fashionable hotels—surrounded and aided by a few henchmen who were often *persona non grata* to the respectable executives of the companies he controlled. He met the company executives briefly perhaps for an hour a week—during whirlwind tours of their company offices.

During these encounters Birrell displayed



**PONZI** bilked Boston investors of millions in international postal reply fraud. Jailed in 1920, he died in 1949 in Brazil hospital.



**INSULL** built \$4 billion utilities empire, only to wreck it and investments of others with wild expansion. He fled U.S. in 1932.



**KREUGER**, the match king and master forger, misappropriated over \$1.2 billion in Europe and U.S. He shot himself in 1932.

little interest in the company's product, promotion or consumer acceptance, but he showed great and perceptive interest in its stock situation and corporate holdings. Gradually he acquired a reputation among reputable businessmen as a man to be feared. When he came into a company, odd things happened, and soon its stock became almost valueless—but by that

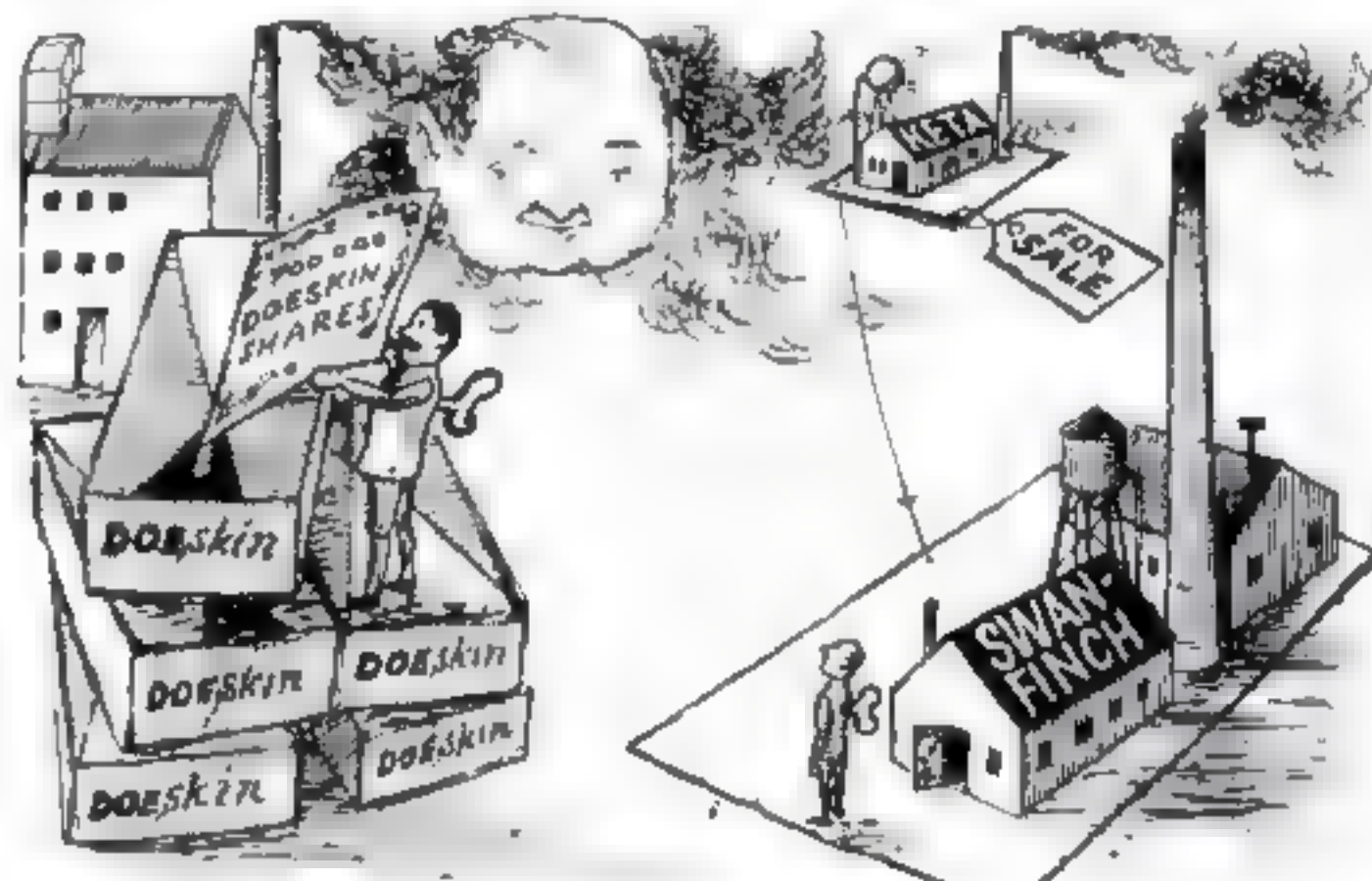
time Birrell had always got out. Brilliant Lowell Birrell had turned to swindling—massively, almost openly and, for a time, undetected.

There is an easy explanation: the poor little bright boy who once had holes in his only shoes was not content with what he had. He wanted more. But psychiatry has a deeper, better suggestion. As expressed by Dr. Robert N.



## ONE BIRRELL SWINDLE

One of the smooth but larcenous methods by which Birrell juggled stock to make money without spending any is described in these illustrations. The Birrell-controlled companies involved in the manipulation shown here were Doeskin Products, which makes tissues, and Swan-Finch Corp., which owned an oil company named Keta. The description of the scheme shown here is based on findings of the office of New York District Attorney Frank S. Hogan which resulted in last week's grand jury indictment of Birrell.



**STEP ONE** Starting swindle involving three companies that he controls, Birrell arranges to have Doeskin Corp. buy Keta Oil from Swan-Finch. As boss of Doeskin, he has 700,000 new shares issued, which are supposed to go to Swan-Finch in payment for the stock of Keta Oil.



**STEP FOUR** Birrell (right) tips off a New York broker that Doeskin stock may be available in Montreal at \$5 a share, well below the market. The broker gets in touch with the Montreal bank manager who, in accordance with the instructions given to him, sells the stock at \$5.



# MANIPULATORS OF THE AGE...



**STAVISKY** swindled French by overselling municipal pawnshop bonds to insurance companies, was mysteriously shot in 1934.



**MUSICA**, Phil (above) and his three brothers took McKesson & Robbins drug firm for \$1 million. Exposed, he shot himself.



**RUBINSTEIN**, a Birrell acquaintance, avoided indictment for his shady deals, was victim of an unsolved murder in 1955.

flamboyantly and does not adequately hide his tracks. This can ultimately lead to social or even physical self-destruction. Birrell, with his poor boyhood, gaudy living and heavy drinking, follows the pattern closely. His swindling methods also follow the pattern, for Birrell, according to many who observed him, always hated stockholders. He would never cheat a friend or steal a nickel, but he regarded his stockholders as his own private hunting preserve. This was strikingly displayed one night in an expensive New York restaurant when he sat near some people, one of whom mentioned that he had just bought stock in a Birrell company. Birrell turned and spoke to the investor. "You put money into one of my companies? That was a mistake, sir. Nobody makes any money in my companies except me."

Birrell swindled in many ways, but they all depended on one thing—confusion. But, as an SEC man explained last week, courts demand that the prosecution demonstrate "just how it happened." People like Birrell purposely complicate their dealings to make investigation as difficult as possible. Often they cannot afterward recall their own manipulations.

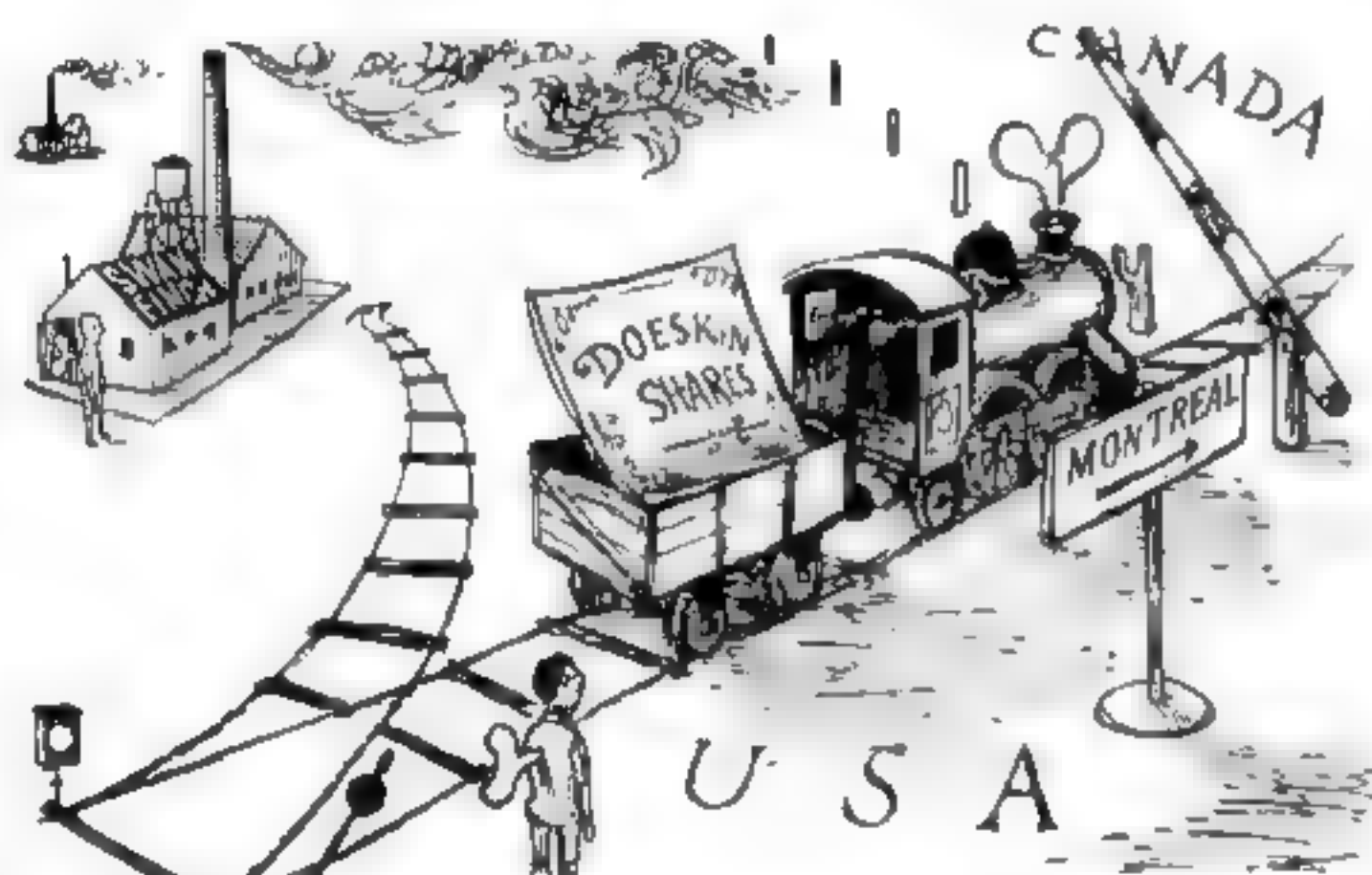
In Birrell's bag of tricks were the following devices: intercorporate organization (interlocking directorates among many companies), Canadian nominees (a nominee is someone acting for a bank which has been assigned stock but cannot be named its registrant),

CONTINUED

McMurry, there are two main elements in the psyche of great swindlers, like those above. These are hatred and guilt. The swindler hates his fellow man, usually as the result of unpleasant early experiences; and he feels guilty because he knows he has broken the rules of his fellow man. Many a swindler was once a boy from the wrong side of the tracks or from a

minority group, the young victim of snobbish associates. His hatred may come to center on investors, for they represent the people with the money he never had. To make money for them is abhorrent, to fleece them is delightful.

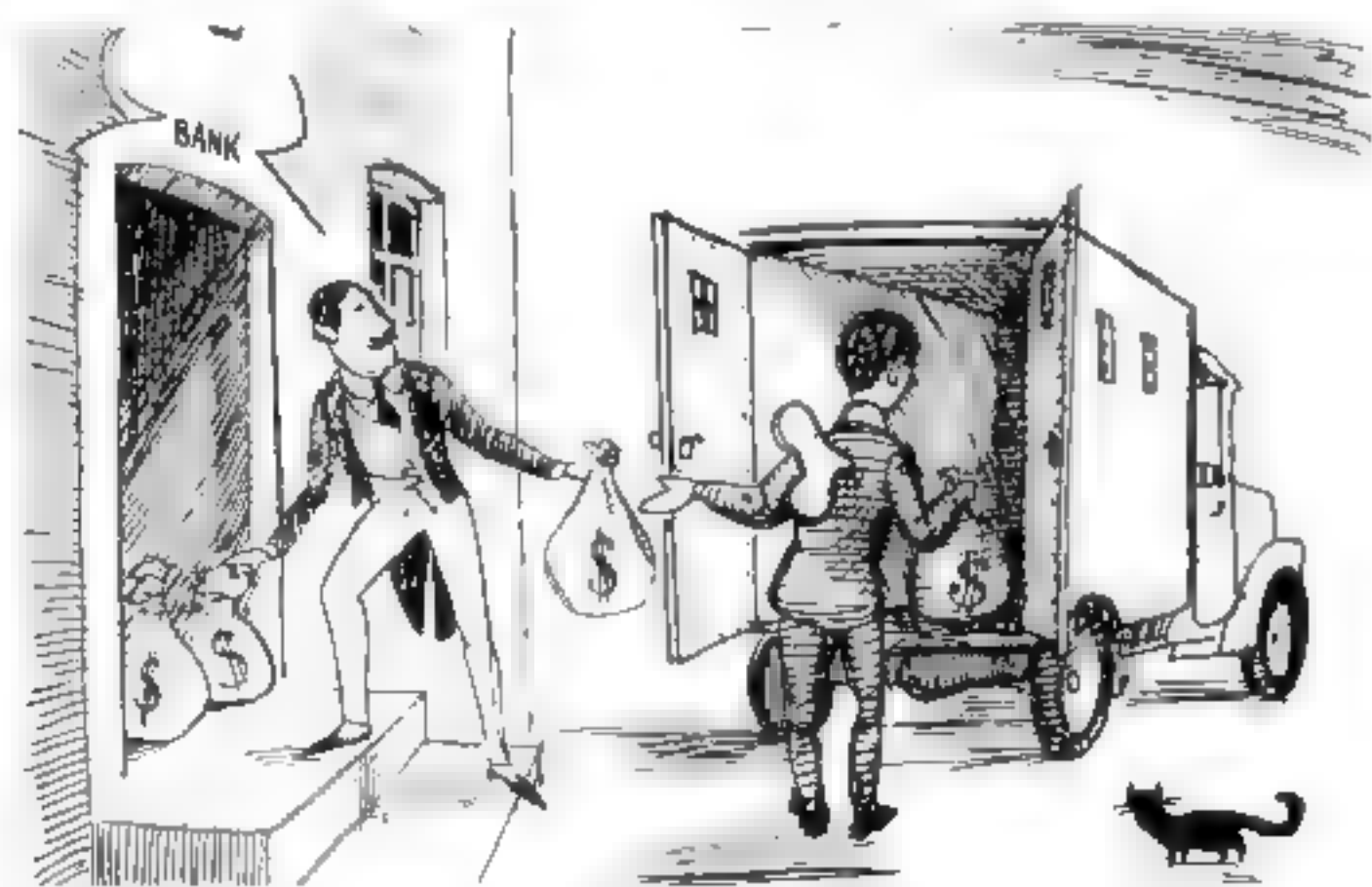
But fleeing leads to guilt, and the swindler in an act of subconscious confession often acts as if he really wants to be caught: he behaves



**STEP TWO** The 700,000 shares of Doeskin stock destined for Swan-Finch treasury never get there. In a clever switch which he engineered, Birrell has some thousands of the shares derailed and routed to an agent in Montreal. The agent dutifully takes the shares to his local bank.



**STEP THREE** Birrell's Montreal puppet tells the bank manager to put the shares in his vault. However, in case anyone should call up and offer to buy the shares at \$5 each, the manager should sell them. At this time the market value of Doeskin shares is between \$1 and \$2.00.



**STEP FIVE** The proceeds from the stock sale are duly deposited in the account of Birrell's Montreal man. Then the Montreal man has the funds transferred to an account that he keeps in New York. This brings the proceeds from the sale of stolen stock almost in Birrell's reach.



**STEP SIX** To complete the swindle, the Montreal man gives a power of attorney over his New York account to a New Yorker who has been a Birrell household employe. The little man writes checks for cash on New York account. He takes the cash and gives it to the expectant Birrell.



# ... AND A GAUDY GOOD TIME WHILE IT LASTED

## MASTER ROGUE CONTINUED

Cuban drops (out-of-country stooges who handle stock for a fee), Swiss-type numbered bank accounts (useful because they allow the owner to remain anonymous) and Tangiers banks.

Birrell's usual technique, according to the SEC, was to gain control, through stock purchase or agreement, of a decent legitimate company, often held by the third generation of a wealthy but financially inattentive family. Then he would bring in other, virtually bankrupt companies and issue new stock against this mixture of sound and dubious assets. (In the case of Swan-Finch Oil, he increased the shares from 43,000 to three million.) Meanwhile he would sell sound assets, sometimes to another of his companies, and tout the now highly watered stock.

Sometimes he used publicity—a gossip columnist once gave a Birrell stock a valuable plug on his radio program, apparently on a tip from a Birrell henchman. Sometimes he cannily bought small lots of his own stock at the end of the trading day, thus making it appear to be rising. Finally when the company was a bloated, worthless hulk with its stock outrageously overpriced, Birrell would pull out, selling all the stock he could and posting the rest with moneylenders as collateral for loans he never intended to repay. When the company crashed, he heard the sound only from afar.

Sometimes afar was only as distant as Bucks County, Pennsylvania, where Birrell maintained a handsome, 1,200-acre farm complete with tenant farmhouses, old stone house, pool, lake and playhouse with well-stocked bar and a row of slot machines (which seldom paid off). There he entertained, lavishly and spectacularly. Said a man who has attended some of his parties: "I like a good time and fun but—brother! I've never seen such vitality. Those guys would drink and wench all night, then get up and do what business they had to do with all the keenness in the world."

Guests at this bucolic haven reportedly included Serge Rubinstein, the playboy, stock-rigger, currency-juggler and the murder victim (LIFE, Feb. 7, 1955) and Pat Ward as well as many lesser "Jelke girls" (\$100 call girls managed by Mickey Jelke).

A glib and charming host, Birrell occasionally had to forsake pleasure for business. Leaving his guests lounging at the pool or admiring the full-sized fire engine a wife once gave him for Christmas, he would make a long distance call to discuss some intricate business deal, every detail of which he had in his head, regardless of how much alcohol it also held.

This dissolute side of Birrell's life came up in conversation last week with an honest and very experienced business executive who had worked with him, although gingerly, for many years. He was asked if he did not think Birrell's wild, attention-attracting, heavy-spending private life represented some sort of necessary release from the tensions he experienced as a money-juggler and stock-kiter. "I don't think so," the man answered thoughtfully. "I think Birrell did those things primarily because he was a minister's son. I think he just wanted to raise a little hell."

If that analysis is correct, Birrell, wherever he is, surely has the satisfaction of having raised what he wanted.



**POURING FOR PACHYDERM.** Birrell amuses his daughter Charlotte by giving Scotch to elephant his wife rented for him. She got animal from circus and gave it to Birrell as 1950 Christmas amusement.

**CLOWNING IN FUR.** Birrell dons lady's stole on a Caribbean trip aboard a borrowed yacht in 1955. Fond of playing the mariner, Birrell kept an old-fashioned pleasure boat on his own private lake.







IN HAPPIER DAYS, ON BIRTHDAY  
IN 1956, BIRRELL DANCES WITH  
WIFE WHO SINCE HAS LEFT HIM



# A LOOK AT THE WORLD'S WEEK







### BANTAM WITH A BIG BELT

A powerful punch in both hands, with the emphasis on the right, put Mexico's Jose Beverra in position to flourish a new possession, the world's bantamweight belt. In Los Angeles, he knocked out the favored champion, Alphonse Halimi of Algeria.

### RINGER WHO BEAT THE BEATS →

A bunch of Beats in Greenwich Village had a contest to pick Miss Beatnik 1959. But the Beats bellowed betrayal when a bathing-suited, uptown chorus girl, Gerry Grotty, no Beat at all, took the title from their own blond, dungareed Turid Danielsen.



### ← HORROR IN THE SHALLOWS

Sudden senseless tragedy branded horror on a Danish youth who, with neighbors, was probing the water off Haderslev for victims of a tourist boat disaster. Gasoline spilled during emergency repairs set the overloaded boat alight. Of 98 aboard 54 died.

### FRENCH FRIED IN A HEAT WAVE

From Spain to Scandinavia, Europe had seldom had it so hot. In Paris, which at 97.6° was having its hottest July 8 in 80 years, these citizens found some relief and a lot of company in their misery at the Piscine Deligny, a floating pool on the Seine.



**FAMOUS PAINTER  
ASSESSING  
ANOTHER'S WORK**

The President was coming through the Soviet exhibition in New York surrounded by his bustling entourage. Suddenly he stepped out of the crowd and out of his brisk sightseeing mood as his eye was moved to look contemplatively at a pastel portrait of a Russian industrial worker. A Sunday painter himself, the President stood back in the studied attitude of one artist regarding the work of another. In this photograph, Dan Budnik caught the rare moment. Then seconds later Eisenhower was back in the crowd again—and back to the pressures of a job to which he was bringing far more confidence and forcefulness than ever before (*Editorial*, p. 39).







# IKE ON TOP, BUDGET IN BALANCE

President Eisenhower must be credited with one of the cleanest victories in our recent political history. Despite the Democratic majority in Congress, he is evidently going to achieve the difficult Republican goal he set in January: a balanced budget for fiscal 1960.

When he and Secretary Anderson decided on this goal (LIFE, Dec. 8, 1958) the country was still in a recession and the '59 budget was running a huge deficit. Democrats denounced the new goal as "propaganda" and the \$77 billion spending ceiling as "skin-flint." The so-called liberals among them, flushed with misinterpretations of the '58 elections, came up with costly new welfare projects and said they would show Ike who was boss. As spring wore on the political division between White House and Congress looked like a flaw in our Constitution. Eisenhower himself was attacked, even in the British press, as a "wibbly wobbler" who was giving us "hand-to-mouth government, without either a set purpose or the practical know-how to carry [it] out."

Seldom has pessimism been more mistaken. Seldom has Eisenhower been so sure of himself, so unwavering and so skillful as in these last six months. Even his lameduck status turned out to be more an asset than a liability; as he said last week, "I cannot be running for anything" and he can therefore truthfully describe his policy as "to get legislation passed that will benefit the United States and keep us solvent at the same time."

He is succeeding with the help of 1) his own Administration's steadfastness; 2) the threat and occasional use of his veto, which

has yet to be overridden; and 3) the uneven co-operation of Majority Leaders Johnson and Rayburn, who have held their own party's spenders in check partly because they sense (and a lot of congressional mail tells them) that the Eisenhower program has the support of the country.

Congress has by no means done just what the President wanted. Its housing bill drew a veto last week for being "extravagant" and "inflationary"; Congress will now have to go to work on a better one. On foreign aid, the Senate made angry cuts in the President's program and then tried to excuse their own ill-advised ax-wielding by blaming the economizing atmosphere which Eisenhower had created. Their own political frustration was more to blame. The President's budget (the largest in our peacetime history) calls for fiscal integrity, not meat-axes, and has plenty of room for all our real needs, of which foreign aid is one. There will be other fights and errors before Congress gets through. But at least no major breakthrough of the \$77 billion budget ceiling is in prospect; and if tax revenues keep rising with prosperity we may even finish fiscal 1960 with a small surplus and the chance of a sizable one in 1961. We could certainly use it.

A balanced budget is only one of several vital fronts in the war against inflation. But in taking his stand there, the President has restored real style to American politics. He picked a good issue, stuck with it and got enough popular support to divide and conquer his congressional opposition. President and people can celebrate this victory together.

## OLD SUBJECT IS REOPENED: SURVIVAL

The governor of New York last week became the first important elected official to espouse a mandatory fallout shelter program, one which may become law for the people of his state. Nelson Rockefeller has thus identified himself with the least popular issue in the U.S. today. He has done the whole country a political service. For if his example succeeds and is copied by other states, it could be the means of saving anywhere from 20 to 100 million American lives.

Why do most Americans go deaf or change the subject when asked to think about defending themselves against a possible nuclear attack? There has been a federal civilian defense office since 1951, but it has neither carried conviction nor made itself heard. It has spent \$500 million on studies, pamphlets, volunteers, overhead, etc., yet our population is almost totally ignorant of how to behave in case Khrushchev should carry out his repeated threat. We don't even recognize the alarm signals. It is U.S. government policy that every surviving American family should be prepared to feed and protect itself without help for two weeks after a nuclear attack. How many Americans have even heard that—let alone made any preparations?

Most of us evidently either hope to die quickly or expect some authority or other to keep us alive. One New York paper greeted Rocky's program with the scornful determination to "die gaily but not daily." That is nonsense. It is as if we had adopted a couple of new national vices from our late enemies—the shrug from Italy and the kamikaze spirit (though of a strangely passive variety) from Japan. Our military policy is based on the possibility of a nuclear war in which we expect to receive—not to strike—the first blow. Yet the defensive preparedness this strategy obviously calls for is zero. Its lack saps the deterrent power of SAC and our bargaining power with Russia.

Helplessness is not a sound reason for the general apathy. The fact is that nuclear war, though a catastrophe, would be a catastrophe with limits which can be narrowed in advance. A full shelter program against blast and heat, as described by Willard Bascom in LIFE (March 18, 1957), would cost at least \$20 billion

and for that reason alone arouses little interest. But according to the latest government studies, blast and heat would account for only a quarter of the total deaths (even in a fat-target state like New York) if we were attacked tomorrow. The other three-quarters would die more slowly from "the silent killer," called radioactive fallout. This would threaten the remotest farm, but anyone outside the blast area could, by taking the right precautions, expect to survive.

These precautions need not cost much. You probably would have some protection now if you knew how to use it. According to a committee of Governor Rockefeller's, present houses with cellars can be made fallout-proof for the critical two weeks for \$150 to \$200. In addition each member of the family needs a "survival kit" (dehydrated food, water container) costing about \$7. Above all you need instruction on how to wash, measure radiation, etc. The place to get that is from your local CD director. He may be the least popular man in town, but he is in business for your health.

Yours and the nation's. The number of individual survivors, and their morale, will determine whether or not the U.S.A. can survive a nuclear war. All we can assume about Russian military planning, target dispersion and CD instructions to the people indicates that they are much better prepared for D+1 and D+14 *et seq.* than we are. Russia has survived a high order of casualties before. Our national preoccupation with an eight-hour war, which we also think of as the end of the world, could easily condemn us to lose the negotiations that would prevent such a war, or once it has started, cause us to succumb to "post-attack black-mail" on a day we had wrongly expected to be dead.

We won't all be dead, that's sure. It is also sure that we can ourselves limit the casualties by taking thought now about this dreadful subject. Since when has survival been too dreadful to think about? It's a complex subject, but not an unmanageable one. Governor Rockefeller has done quite right to open it up. Let it stay open until all of us—Washington, the states and the people—have faced up to what needs to be done.





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## Invent your own with New Kraft Toppings!

This fancy banana split is just a starter. You can create dozens of wonderful Sundaes with these four new toppings from Kraft. Adventure a little! Combine different varieties for color and flavor. Add Kraft Miniature Marshmallows, nuts, cherries. Let your imagination go!

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**25.2% more**



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**'59 FORD**

It's a fact—for every 100 miles driven, Ford delivered an extra 25 gas-free miles over the average of other makes!

This rate of savings for Ford pickups was certified by the nation's foremost independent automotive research organization in the greatest test of truck economy ever made—Economy Showdown U.S.A.

Here's how the tests were made: First, new six-cylinder half-ton pickups of the six leading makes were purchased from authorized dealers, broken



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in for at least 600 miles, then tuned to manufacturers' specifications.

Next, all were tested under the exact same conditions—at 30 mph, at 45 mph, at 60, in door-to-door retail delivery service, and in city driving. When the results were tabulated, there was no question of the winner...

Ford won every test...against every truck! Delivered 25.2% more miles per gallon than the average of all other makes! And that's certified!

25.2% more miles per gallon means getting 25 extra miles for every 100 miles driven! And in the course of a year's driving—say 10,000 miles—it would mean a dividend of 2,500 extra gas-free miles!

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# A SWEDISH HURRAH FOR HERO INGEMAR

The most famous Swedish conqueror since Charles XII—the 18th Century king who licked the Russians, the Saxons and the Poles—came back to Sweden last week and his home town of Gothenburg turned proudly out to greet him. When Ingemar Johansson, the new heavyweight champion, arrived at the airport, an impressive mob of 5,000 was there to cheer him. Then he stepped into a helicopter and flew to a stadium where 20,000 more Swedes awaited him. First out was Birgit Lundgren, the pretty girl who had kept him company before the fight and in Florida afterwards (*tright and cover*). Then came Ingemar and the stadium almost exploded.

For the next 36 hours Ingemar was whisked from reception to reception and showered with flowers. But as soon as the shouting had died down, Ingemar got down to the business of turning his new crown into a few kronor. Immediately he set off on an exhibition tour of Sweden's tank towns which he estimated would net him a cool 260,000 kronor (about \$50,000). Back home pretty Birgit was making money too. She was hard at work writing a story about "My World Champion Is So Gentle."



**RELAXING WITH BIRGIT** during the week after the fight, Ingemar lolls on dunes at Pompano Beach, Fla. a few days before triumphant return to Sweden.

**BACK IN SWEDEN AFTER LANDING AT GOTHENBURG AIRPORT, JOHANSSON GETS A HERO'S ENTHUSIASTIC WELCOME FROM EVERYBODY EXCEPT ONE DISSENER**



CONTINUED



SWEDISH



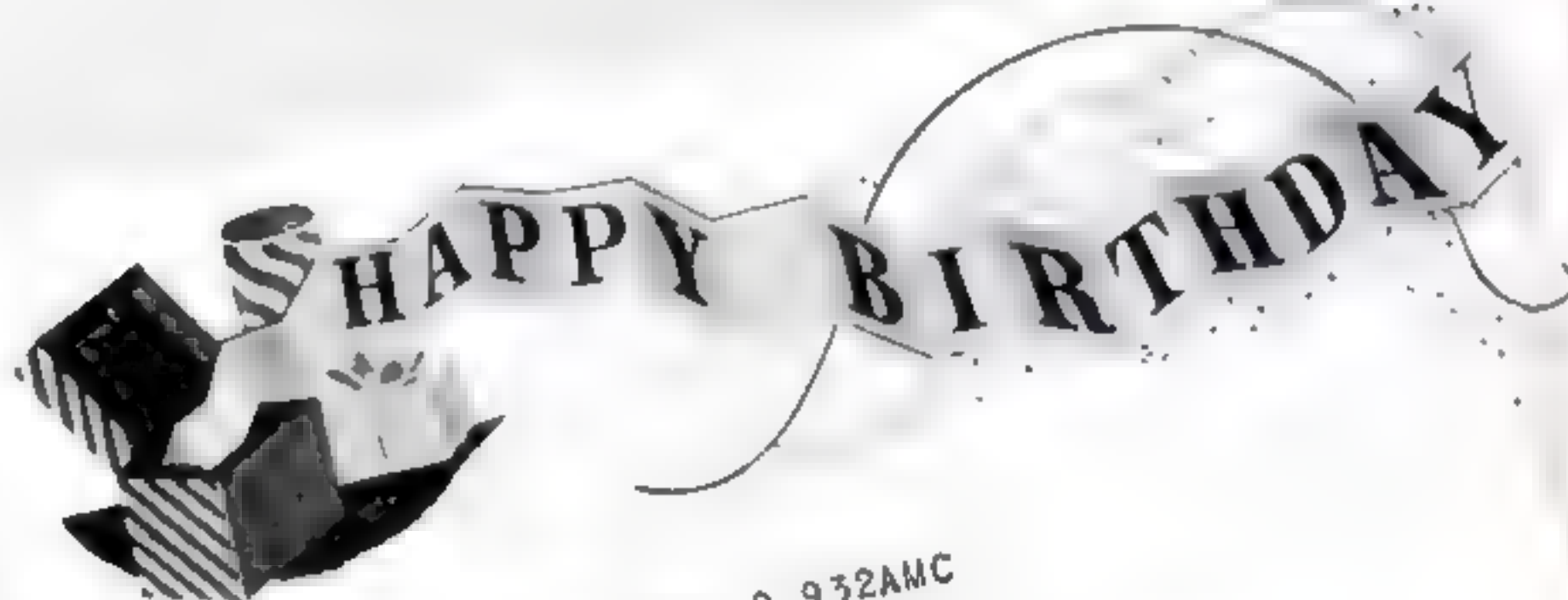
LOOKING DOWN on 20,000 Gothenburgers, Ingemar and Birgit circle Nya Ullevi stadium in helicopter. As soon as they landed in the center of the stadium

and Johansson had climbed into a boxing ring to be presented to the howling crowd, Birgit disappeared because she felt the glory should be all Ingemar's.

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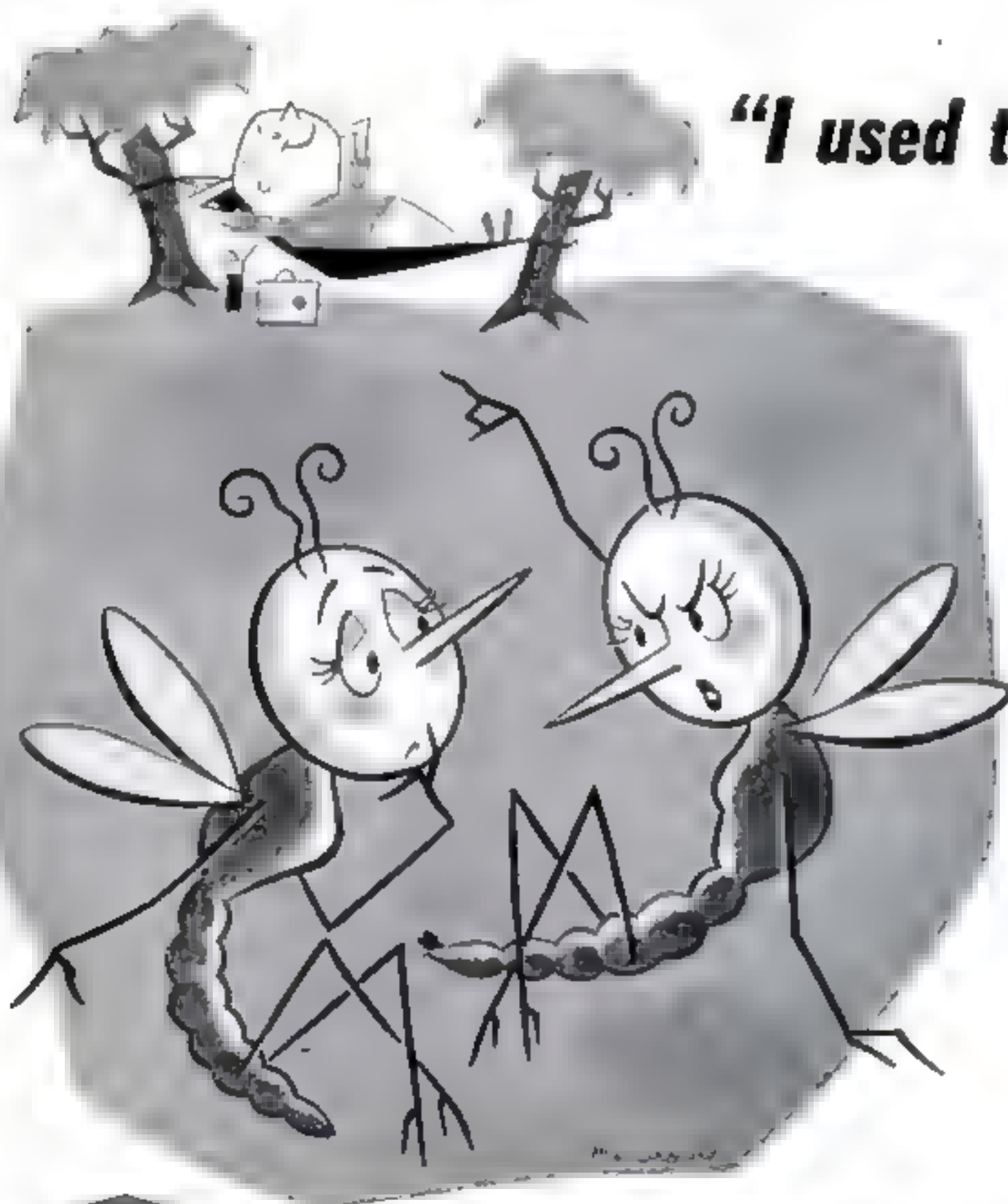




**LOOKING UP** at the descending helicopter, excited Swedes wave at their home town hero. Although Gothenburg city council would not give its official blessing

to the fighter's homecoming celebration because it did not want to get involved in such a "rough sport," a huge crowd turned out at the stadium anyway.

CONTINUED



***"I used to be the biggest sting in his life!"***

Now you can escape the annoyance of mosquitoes, black flies, chiggers, gnats, and other people-biters whenever you're outdoors. Just reach for "6-12" Insect Repellent and relax.

**Insects Hate It—People Love It!** You can't smell "6-12" Repellent—but biting insects are repelled by it. For more than 15 years, millions of users have proved that just one application of "6-12" Repellent gives hours of relief from annoying insects.

**Easy to Apply... Immediately Effective!** Smooth on "6-12" Insect Repellent as easily as your favorite suntan lotion. It does its job on contact. Just apply to all exposed areas—and start enjoying outdoor living! "6-12" Repellent is greaseless, so it won't stain or harm clothing. And, because it's colorless, it leaves no telltale marks or shadows.

**Now Available in Four Convenient Packages!** Have "6-12" Repellent on hand for barbecues and for the children's comfort while they play outdoors. Take it along on picnics, golfing or fishing trips. And have an extra for your guests' protection when you entertain outdoors. Take your choice of "6-12" Insect Repellent in clear liquid, convenient aerosol spray, handy stick, or new lightly scented lotion. Leading drug, grocery, hardware and sporting goods stores throughout the U. S. and Canada carry "6-12" Brand. Enjoy your summer—get "6-12" Insect Repellent today.

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**BEDECKED WITH FLOWERS**, Ingemar leaves the stage after making an appearance before a crowd of 5,000 at Tivoli amusement park in Stockholm.



**OUT ON TOUR** the next day, Johansson greets youthful fans at dressing room window after he has put on exhibition bout in tiny town of Östhammar.

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Sprinkles and  
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Like Sugar

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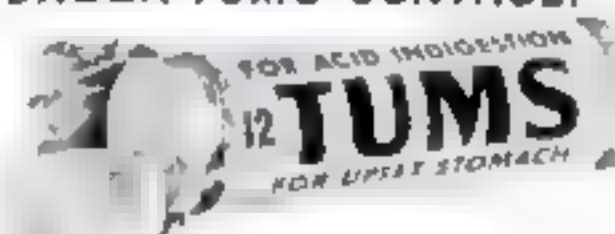
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For quick, safe, sure, 'round-the-clock freedom from odors of strong food, alcoholic beverages, smoking, etc., take wonder-working, pleasant-tasting "ENNDS" Tablets containing the miracle extract, Daratol®. "ENNDS" act internally where sprays, mouthwashes, toothpastes simply can't reach. Can't upset the stomach. Trial size at Drug counters only 54¢.

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Prefect 4-door sedan only \$1661\*

## IT'S IMPORTED! IT'S FORD! IT'S YOURS FOR \$1 A DAY!

Your trade-in may fully cover the down payment that starts you on the \$1-a-day plan, now offered by most English Ford Line dealers on Anglia, Prefect, and Escort models.

Here's a smart car for a smart buyer! The English Ford Line is the meeting ground for two traditions. You see fine *British* craftsmanship everywhere in these compact cars. And *Ford* means extra value throughout the world.

The 2-door Anglia model is priced at just \$1561\*, the 4-door Prefect model at \$1661\*. And you save money all down the line. Up to 35 miles per gallon of *regular* gas. Holds only *two* quarts of oil. You'll save on insurance, depreciation, tires, service, registration fee.

Only 150 inches long, these cars make driving fun, parking a picnic. Yet they seat four adults comfortably, and give you *almost 50% more* luggage space than the other two best selling imports.

You get a big-car ride—thanks to ideal 50-50 balance of weight between front and rear wheels, front shock absorbers that are almost two feet long, a torsion anti-roll bar that virtually eliminates sideways in cornering.

These cars have quality to the core! Modern, full-sized air cleaner and oil filter prolong engine life and power, prevent many unnecessary repairs. You get tip-toe driving ease with the hydraulically actuated clutch and brake. And of all leading economy imports, the English Ford Line alone has modern suspended pedals; they're more comfortable to work, and need no holes in the floor that let in rain, wind and dirt. Copper plating under chrome helps ward off rust and peeling.

Speaking of service—there are hundreds of franchised dealers. You'll find them in *every* state.

More good news! The English Ford Line uses American-size nuts, bolts and fittings. Tools in *any* U.S. service station or garage will fit. Most

other imported cars need special metric-size tools.

There's a complete instrument panel—including fuel and temperature gauges—not always found in economy imports.

Locate your nearest dealer in a jiffy . . . Call Western Union. Then ask for Operator 25. She can give you the name of your nearest English Ford Line dealer at once. Call her any time. How about right now?

\*Manufacturer's suggested retail price at Eastern and Gulf ports of entry. State and local taxes and transportation from P.O.E. extra. White sidewall tires optional at extra cost. Made in England for Ford Motor Company, Dearborn, Michigan, and sold and serviced in the United States by selected dealers. For further information, write: Imported Car Sales, Ford Motor Company, 3000 Schaefer Road, Dearborn, Michigan.







**IN THE CHURCH,** Prince Albert and Princess Paola approach altar, followed by King Baudouin escorting his grandmother Queen Elizabeth, then ex King Léopold escorting Princess Luisa, bride's mother.

**BEFORE THE ALTAR,** Prince Albert in naval uniform and Princess Paola in lace and satin prepare to kneel at prayer stools as ushers seat the rest of royal family. Beside aisle at right is Queen Elizabeth.



**THE HANDSOME COUPLE** wait at a ceremony at palace in Brussels where King Baudouin is married.







business. Here Prince Albert glances at his bride who is recovering from a momentary spell of weeping.

# PRETTY PRINCESS WEDS THE PRINCE

In Brussels a young couple took vows of love and the Belgians enthusiastically accepted a young Italian princess as their own. The bridegroom was Prince Albert, 25, brother to King Baudouin and heir presumptive to the throne. The bride was the lovely Princess Paola Ruffo di Calabria, 21, of an aristocratic Italian family. The two met at a ball in Rome last year when the prince was representing Belgium at the coronation of Pope John XXIII.

For a time, as the royal family and Belgian parliament squabbled over whether the marriage should be held in Belgium or in Rome, the marriage seemed unlikely to win any friends for the monarchy. Since World War II, the

Belgian royal family has had its troubles. Léopold was forced to abdicate, his son Baudouin has still to take a queen. But for Albert's marriage, the royal family gave in and agreed to a Belgian wedding. The couple were first married in a civil ceremony at the royal palace. Then they were married again in Brussels' huge Saint Gudule church by Cardinal Van Roey.

During the ceremonies the bride blushed and wept from nervousness. Millions of Belgians, watching on television, thrilled with tenderness at her modesty and beauty. Thousands in the streets shouted, "Paola!" Everyone was ecstatic and Paola seemed on her way to winning back some popularity for her new family.





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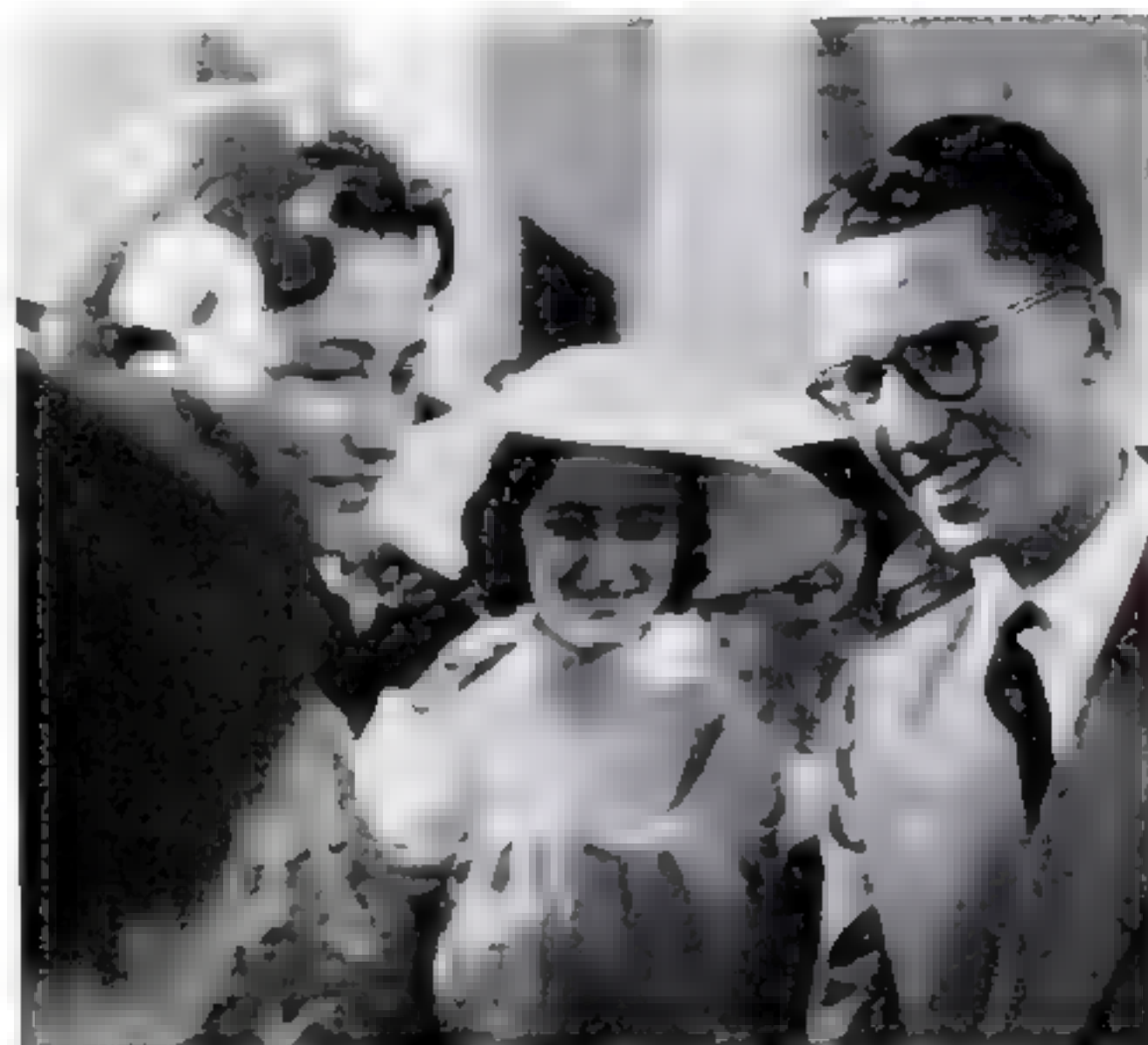


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## PRINCESS WEDS PRINCE CONTINUED



**WITH THE KING**, Paola (left) joins conversation at a garden party given by the royal family at their chateau in Brussels. Five thousand guests came.



**BAFFLED BY A QUESTION** at the party, Paola smiles and gestures, showing the unsophisticated charm which won her a warm response from Belgians.



**WITH EX-KING**, Léopold III, Paola and Albert have family talk. If Baudouin remains a bachelor, Albert's children will be in line for the throne.

CONTINUED





Sunset against the villas of Tivoli outside Rome

Italy is only minutes away when Chef Boy-Ar-Dee is on your shelf. So have several cans of Chef Boy-Ar-Dee Spaghetti Sauces handy. Their flavor's rich as a Roman sunset; they're endlessly versatile. Top off spaghetti with Chef's blend of tomatoes and meat or mushrooms. Brighten up meats, fish, rice or eggs. Save money, too. Try tasty meals like these...



Add zest to leftover chicken. Warm pieces and smother in Chef Boy-Ar-Dee Sauce with Mushrooms. It's loaded with fresh mushrooms, added the day they're picked.



The next time you serve meat loaf, try it this way. You'll find your favorite meat loaf recipe and Chef Boy-Ar-Dee's hearty Sauce with Meat were made for each other.



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## PRINCESS WEDS PRINCE CONTINUED



**FORMAL KISS FOR MOTHER** of the Bride is given Princess Luisa Ruffo di Calabria by ex-king Léopold III as she arrives in Brussels with Paola (left).



**FATHERLY KISS FOR PAOLA** is bestowed by Léopold. Because he has been accused of unduly influencing Baudouin, Léopold is moving from palace.



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New Freshness—*easy-going, gentled by a super-fine white filter.*

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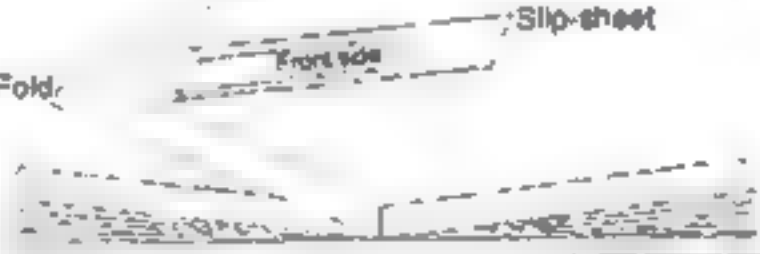
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year after year...**

**now brings you  
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**LIVE BETTER...**  
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# **All-Over Automatic Defrosting in the new Frost-Guard Refrigerator-Freezer with Swing-Out Shelves**







**All shelves swing out . . .** for easy pickings! All food is within easy reach. And shelves are easily adjustable! So sturdy . . . actually tested at more than 150 pounds!



**All shelves lift out!** You can easily take them right out of the refrigerator for cleaning the complete interior section or the shelves themselves.

## New Swing-Out Shelves and All-Over Automatic Defrosting

**Only General Electric gives you BOTH . . . in the  
new Frost-Guard Refrigerator-Freezer**

**N**O MORE fumbling, spilling or "forgetting" foods on the new G-E Swing-Out Shelves! You just swing them out—pick what you want—and swing them right back again. You can even adjust the spacing between shelves to suit yourself. All you have to do is press a button and lift the shelf up or down.

Another big advantage of the new General Electric Refrigerator-Freezer is General Electric's new Frost-Guard System that gives you all-over automatic defrosting in BOTH the freezer and refrigerator. No messy defrosting—ever!

Other features of this new General Electric include: Swing-Out Vegetable Bin, butter conditioner and egg tray . . . adjustable and removable door shelves . . . no coils on back . . . Mix-or-Match colors . . . PLUS famous G-E dependability.

See the new 15-cubic-foot Frost-Guard Refrigerator-Freezer at your General Electric dealer's. Don't forget to ask about his easy-pay terms and trade-in allowance. Household Refrigerator Dept., General Electric Company, Appliance Park, Louisville 1, Kentucky.

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**GENERAL  ELECTRIC**



**Automatic Defrosting Everywhere** in this new General Electric Frost-Guard Refrigerator-Freezer. Frost never collects on foods or walls . . . in the big freezer or in the refrigerator. No more worry about defrosting. Frost-Guard does it for you. Also, new Freeze-N-Store Ice Service gives extra ice cubes when needed. Two big trays empty the cubes into a special storage bin. Cubes never stick together.



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**① Automatic Defrosting in the Freezer.** General Electric Frost-Guard System prevents frost from collecting on frozen foods or on freezer walls. You never have to bother about defrosting. Frost-Guard does it for you—automatically—in the 4.8-cubic-foot freezer.

**② Automatic Defrosting in Refrigerator.** No more pans to empty . . . buttons to push . . . clocks to set. Frost-Guard does it *all*, banishes messy defrosting forever.

**③ New Swing-Out Shelves.** Shelves swing all the way out—put all food within easy reach of your hand. Easy to adjust—up or down, so that you can arrange shelf spacing to suit yourself. And so strong—actually tested at more than 150 pounds.

**④ Straight-Line Design** fits flush into corner. No coils on back mean no dirt-collecting waste space. Front lines up evenly with cabinets. No waste space at side for door clearance.

**⑤ New Freeze-N-Store Ice Service** gives you extra ice cubes when you need them. You just turn the two big ice cube trays over the big storage bin and drop cubes into it. Refill trays right in the freezer; no need to carry them to sink.

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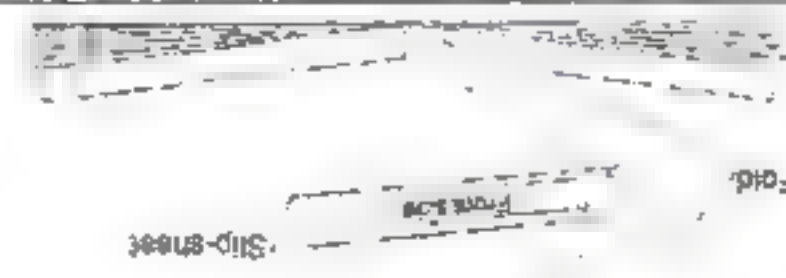


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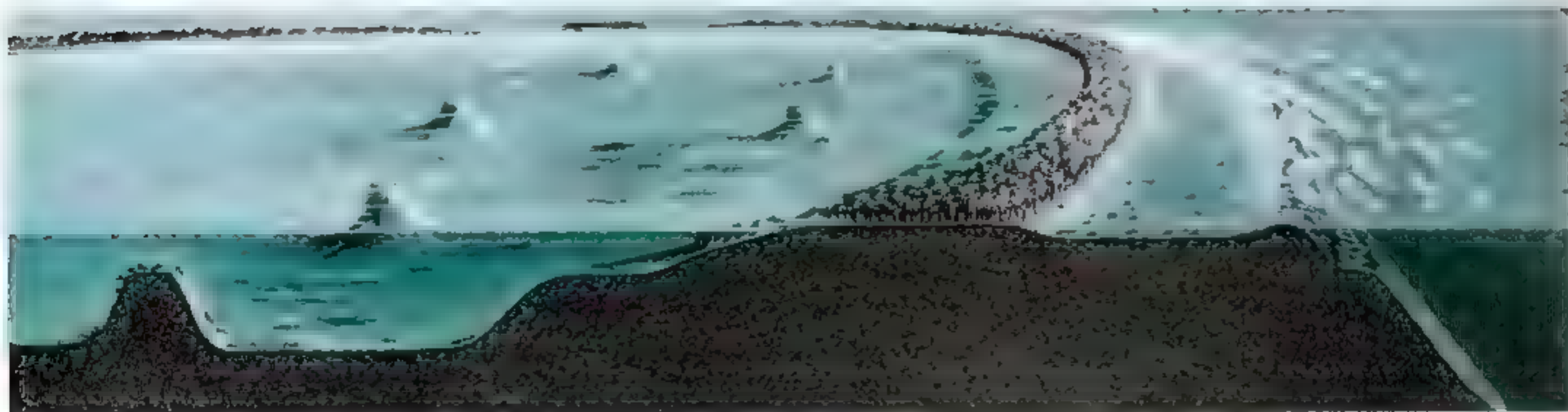
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A TYPICAL CORAL ATOLL is circular, as shown in the vertical section above. To the far right the ocean washes across the shallow reef up to the high coral shore covered with palms. This shore encircles the inner lagoon, studded

with pinnacles of coral thrusting upward from the bottom of the lagoon. In the foreground the cutaway shows the base of the atoll, layer upon layer of coral limestone skeletons built up through the ages on a submerged volcano.

# THE MYSTERY OF CORAL ISLES

On a far-away atoll Darwin solved a riddle of oceanic life

IN the autumn of 1835, H.M.S. *Beagle* completed its survey of South American shores and headed westward across the Pacific. Midway in this long voyage, Darwin wrote, "We saw several of the most curious rings of coral land just rising above the water's edge, which have been called Lagoon Islands. These low coral islands bear no proportion to the vast ocean out of which they abruptly rise; and it seems wonderful that such weak invaders are not overwhelmed by the all-powerful, never-tiring waves of that great sea, miscalled the Pacific."

Everywhere Darwin's insatiably inquiring eye absorbed images that raised questions in his mind. And the same genius for synthesizing apparently unrelated observations that produced his masterwork on evolution also produced a number of minor classics, unfamiliar to most people but pillars of the edifice of scientific knowledge. One of these sprang from his visit to the lovely coral isles. In the spring of 1836, when the *Beagle* set him ashore on the Cocos Islands, in the vast reaches of the Indian Ocean between Australia and Africa, he found the answer to a mystery that had baffled observant mariners for centuries—the enigma of the creation of coral islands rising unexpectedly, solitary, remote, from the abyss of the unbroken sea.

Pre-Darwinian theories of coral reef formation had clouded rather than resolved the mystery of their existence. Voyagers and explorers of the 17th and 18th centuries fancied that coral animals erected their circular parapets for reasons of defense and compared them with beehives and the geometrical nests of wasps. One naturalist deduced that reefs were "built by fishes by means of their teeth." In prose and poetry nature writers eulogized the "skill" and "industry" of the "coral insect" in fabricating his "home."

Darwin was perfectly aware that coral formations consisted of the calcareous remains of small, static, colonial animals, and that their giant edifices were no more products of "skill" and "industry" than man's skeleton or the shells of clams. Yet the problem of process remained. Observations made by Darwin in the Cocos Isles revealed that the outer walls of coral of each reef and atoll plunged precipitously to enormous depths. Paradoxically he also ascertained that living corals existed only to a depth of 120 to 180 feet, a depth at which almost all the sunlight has been absorbed. The crucial question, therefore, as Darwin phrased it,

was "On what have the reef-building corals, which cannot live at great depth, based their massive structures?"

Darwin examined coral formations and separated them into three types: atolls, barrier reefs and fringing reefs. The atoll, he noted, comprises a ring of coral surrounding a central, shallow lagoon (*above*). The barrier reef is a circular rampart of coral surrounding a volcanic island and separated from it by a channel of water. The fringing reef is similar to a barrier reef, but closer to the island shore or contiguous with it.

In these three types Darwin discerned a process of evolution. The key to his insight was his knowledge of geology. His travels in the Andes had provided evidence of the forces within the earth's crust that recurrently cause mountains to rise in one region, while elsewhere the crust may subside, creating basins and lowlands. He concluded therefore that coral formations were the end product of three processes: 1) the initial uplifting of an island by submarine volcanic action, 2) the gradual subsiding of the island into the sea, and 3) the colonizing of its subsiding slopes by myriad coral polyps which reproduced themselves in the sunlit upper strata of the sea and, as they perished, left behind their skeletons as foundations on which future generations continued to build. In Darwin's view the fringing reef came first, edging the shores of the newly created island. Then as the island subsided, the corals, ever building on the same foundations, became separated from the shore, and their structure assumed the form of a barrier reef. Finally the island disappeared completely, leaving only the circular atoll.

"From the fact of the reef-building corals not living at great depths," Darwin wrote, "it is absolutely certain that throughout these vast areas [of the ocean], wherever there is now an atoll, a foundation must have originally existed within a depth of 20 to 30 fathoms from the surface. . . ." As island after island, slowly sank beneath the water, fresh bases would be successively afforded for the growth of the corals. In its essential outlines Darwin's theory is valid today. Some modern refinements of his theory are discussed on pages 67 and 68. It is another testament to his many-faceted genius that Darwin's only firsthand knowledge of a coral atoll and its domain of life was obtained during his brief visit to the Cocos Islands between April 1 and April 12, 1836. The Cocos as they appear today, little changed since Darwin's time, are shown on following pages.





CORALS AND FISH abound in the calm and shallow reef waters of the Cocos Islands. Here dainty damselfish flash their turquoise scales amid clusters of stony branches. These tiny fish usually swarm in large schools and stay close

to their protective coral home. At top and left, colonies of staghorn corals extend graceful interlocking antlers. The rounded or cylindrical corals in the center are *Porites* which Darwin spent much time studying and admiring.

Photographed for LIFE by JOHN DOMINIS

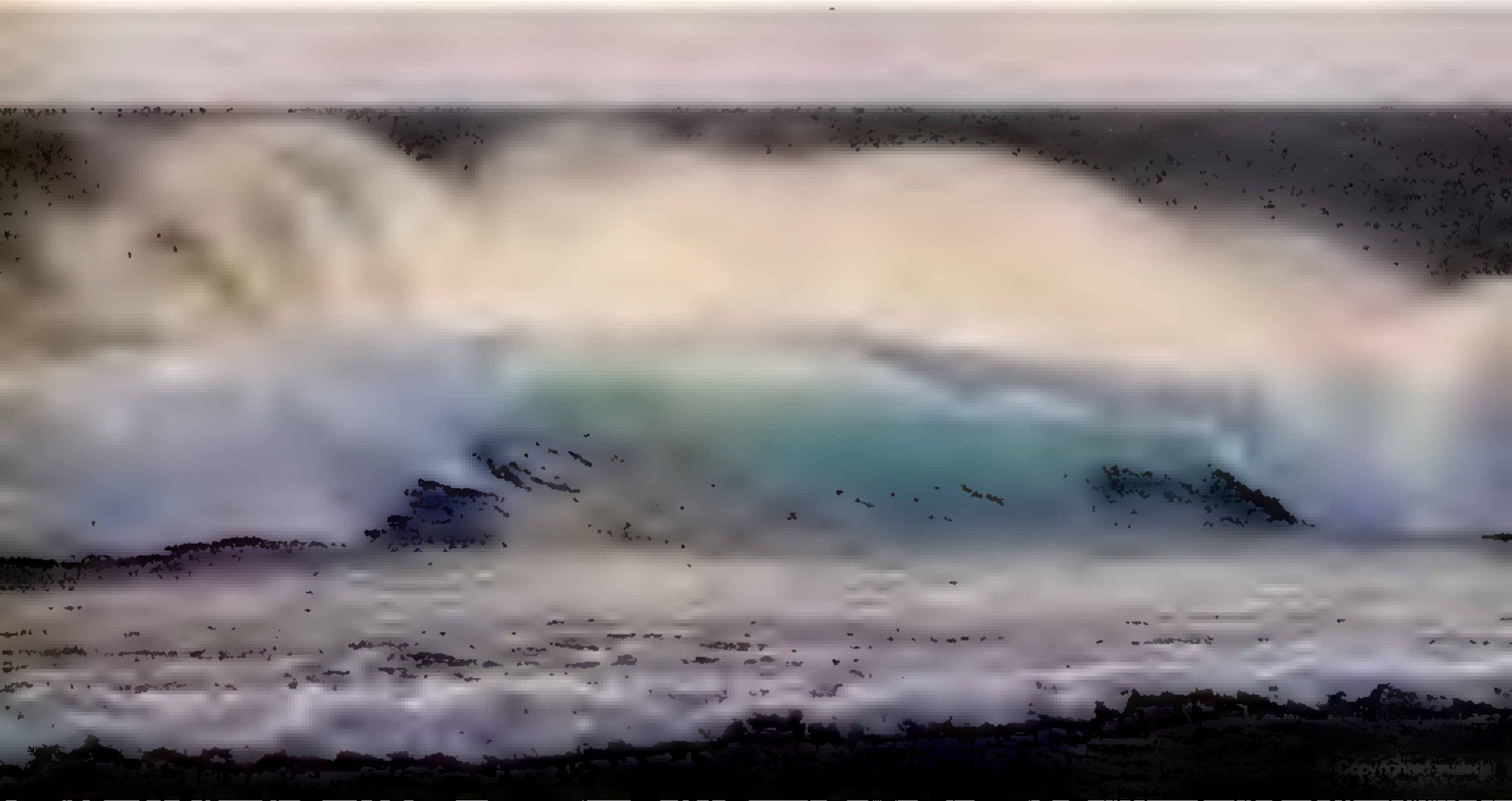
CONTINUED





A CORAL BARRIER (*foreground*) protects West Island, the largest of the Cocos group, from the sweeping surge of the sapphire sea. In the background is the atoll's quiet lagoon, seven miles across and rimmed with scattered islets.

GIANT BREAKERS crash incessantly on the outer reef. "It is impossible to behold these waves," Darwin observed, "without feeling that an island would ultimately yield and be demolished by such an irresistible power."



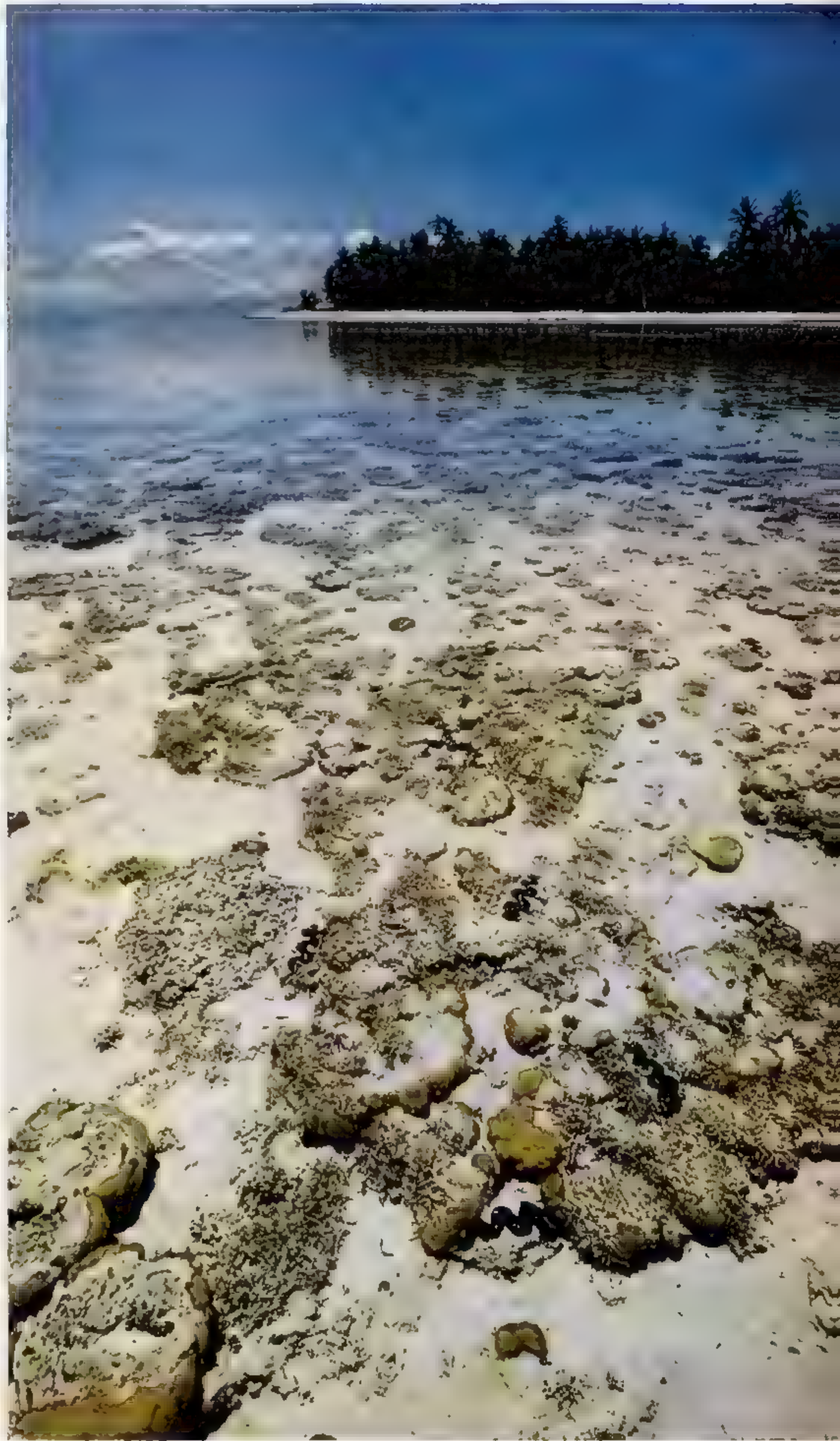




## REEF, SURF AND ISLETS

"The ring-formed reef of the lagoon island," Darwin wrote, in describing the scene above, "is surmounted by linear islets. . . . The shallow, clear water of the lagoon is of the most vivid green. This brilliant expanse is divided by a line of snow white breakers from the dark heaving waters of the ocean. As a white cloud here and there affords a pleasing contrast with the azure sky, so in the lagoon bands of living coral darken the emerald green water."

Along with the beauty of the atolls, Darwin was impressed by their resistance to the violent pounding of the surf engendered by the incessant trade wind: "The ocean and the land seem here struggling for mastery. . . yet these low, insignificant coral islets stand and are victorious. . . . Let the hurricane tear up its thousand huge fragments; yet what will that tell against the accumulated labor of myriads of architects at work, month after month? Thus do we see the soft and gelatinous body of a polyp, conquering the great mechanical power of the waves of an ocean."



A REEF FLAT, built over untold centuries of diverse corals, lies just below the surface of the sunlit water. Darwin made several excursions to

these wide flats, wading out at low tide and marveling at their complex submarine structures of coral and the infinite variety of multicolored life.









← **ROOSTING IN A TREE**, the red-footed booby rests between flights out to sea. It sights fish from 50 feet or more and dives after them. The booby cannot take flight from the ground; it must climb onto a bush to launch itself.

**IN HOVERING FLIGHT** the white fairy tern, shown in the two photographs above, seems the most ethereal of sea birds. When it soars against the bright sky its skeletal structure is clearly silhouetted within its translucent wings.

## AN ATOLL'S SEA BIRDS

In describing the varied bird population of the Cocos, Darwin remarked that the islands' wooded areas, covered with shrubs and palms, might, "from the many nests and from the smell of the atmosphere, be called a sea rookery." He expressed his enchantment with the

white tern—"a charming bird, which smoothly hovers at a distance of a few feet above one's head, its large black eye scanning with quiet curiosity your expression. Little imagination is required to fancy that so light a body must be tenanted by some wandering fairy spirit."





THE GHOST CRAB is one of the liveliest but most timorous members of its family. Creeping forth at night to feed, it dashes for safety at the slightest hint of alarm. It burrows with amazing speed, hurling sand three feet away



THE ROBBER CRAB intrigued Darwin by its unusual characteristics—a fondness for coconuts and the great strength of its claws. Darwin described how one escaped from a strong tin box by bending and piercing the metal.



THE HERMIT CRAB, which is not a true crab but a soft-bodied crustacean, armors itself in abandoned shells of other reef dwellers. Wedging its vulnerable posterior into a borrowed home, like the turbo shell shown here, it anchors

## COLORFUL CRABS

Amid the coral gardens of the Cocos isles Darwin found a wealth of evidence for his evolving vision of the natural world. He saw how crabs and clams had adapted in various ways to their abode. Of the 100-odd species of crabs on the Cocos isles, each has its niche in the life of the atoll. One crab is so static that in time the growing corals enclose it forever in a calcareous prison. Several species camouflage themselves with sponges and algae, while the hermit crab resides in borrowed shells.

Darwin's interest was most taken by the robber crab (*left*) which eats





itself within by means of short rear legs. Then it faces the marine world defiantly in ferocious crablike fashion, brandishing its large anterior claws. When danger appears it withdraws into its fortress, using its claws as folding doors.

## AND HUGE CLAMS

coconuts. "It would at first be thought quite impossible for a crab to open a strong coconut," he wrote, citing what a local observer told him. "The crab begins by tearing the husk, fiber by fiber . . . hammering with its claws till an opening is made. Then turning round its body, by the aid of its posterior pincers, it extracts the white albuminous substance. I think this is as curious a case of instinct as ever I heard of, and likewise of adaptation in structure between two objects apparently so remote from each other in the scheme of nature as a crab and a coconut tree."



**THE MANGROVE CRAB**, a good swimmer, prefers the water to the shore. Most are characterized by brown or green coloration. This blue specimen, searching the shallow flats for worms and crustaceans, is a beautiful variant.



**THE GIANT CLAM** above is a foot across. Others may attain four times this size, weighing 600 pounds. Darwin noted that if such a clam seized a man's hand, "he would not, as long as the animal lived, be able to withdraw it."

CONTINUED



DARWIN CONTINUED

## REEF'S ODD CREATURES



A CHINESE FISH hovers over a golden, flower-like cluster of deep-sea coral. One of the newest and rarest beauties of the Nouméa Aquarium, it

is also one of the least known. Scientists as yet can provide no explanation for its tendencies to swim in a near vertical posture, as shown here.

Photographed for LIFE by TOM HUTCHINS



A FEATHER STAR, a relative of the sea lily, starfish and sea urchin, flutters gracefully through the waters like some strangely indolent bird. When





In the light of modern marine biology, the acuity of Darwin's observations stands as a testament to his genius. Darwin had to kill his specimens or peer at them from the surface of the sea. Now scientists can descend, protectively goggled and finned, into the teeming

mansions of the reef to examine them at leisure.

One of the most important research projects on coral reef life is being done today at the aquarium of Nouméa in New Caledonia. Here Dr. René Catala, its founder-director, and his staff are studying the interrelationships of the

reef community. Since the aquarium is situated athwart a coral reef it can collect creatures seen nowhere else. But the aquarium's greatest treasure is its collection of deep-sea corals—the only one in the world. For a jewel-like picture of fluorescent corals, turn the page.



feeding, a feather star attaches itself to a rock or shell by means of its claws. It eats plankton, marine microorganisms and dead organic material.

A CLING FISH poises on a rocky pedestal, hanging on by means of a sucker pad on its pectoral fin. Fragile, scaleless, small finned and a weak

swimmer, a cling fish finds itself virtually helpless in strong currents or heavy seas. To survive, it has developed the adaptation for which it is named.







**GLOWING DEEP SEA CORALS** shine with fluorescence in this remarkable photograph taken in darkness with ultraviolet light. Divers had long suspected that the deeper corals, growing 120 feet or more below the surface, possessed fluorescent qualities. This colorful picture of coral brought up from deep waters proves it while revealing the coral's full unearthly splendors. The biological purpose of fluorescence is not known.







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**SIMONIZ MAKES IT**





DARWIN'S FIRST LANDING on the Cocos Islands was made at this old brick dock, now in ruins, located on Home Island. The bricks to build the dock were imported from Scotland a few years before Darwin arrived.

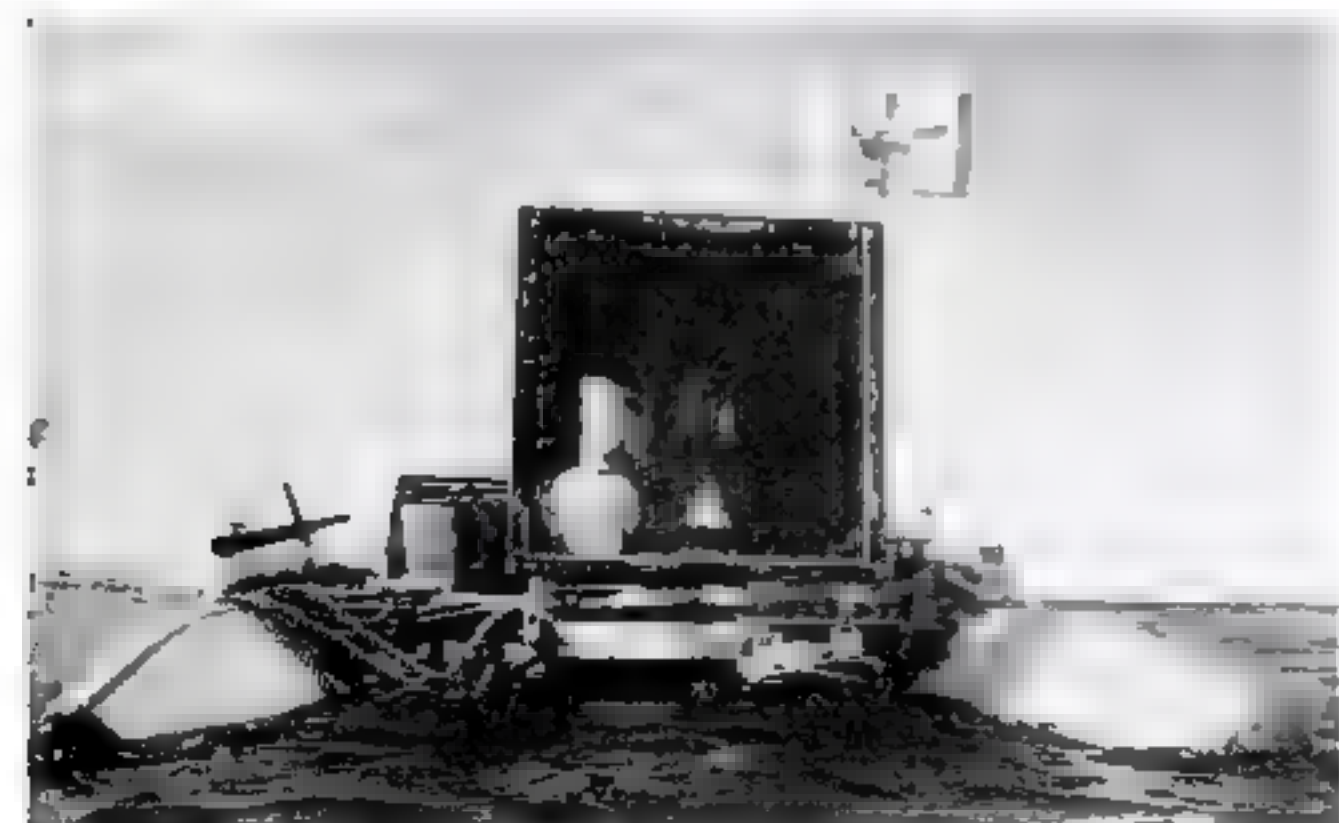
## CONFIRMATION OF HIS THEORY

When Darwin's work, *The Structure and Distribution of Coral Reefs*, appeared in 1842, it was acclaimed by naturalists and geologists the world around. Like other Darwin writings it precipitated controversies but for the most part its conceptions have received assent from men of science. With characteristic modesty Darwin seemed unaware of the importance of his achievement.

"No other work of mine," he wrote in his autobiography, "was begun in so deductive a spirit as this, for the whole theory was thought out on the west coast of South America before I had seen a true coral reef. I had only to verify and extend my views by a careful examination of living reefs. I had during the two previous years been attending to the effects on the shores of South America of the intermittent elevation of the land, together with the denudation and deposition of sediment. This led me to reflect much on the effects of subsidence, and it was easy to replace in imagination the continued deposition of sediment by the upward growth of corals. To do this was to form my theory of the formation of coral reefs and atolls."

Darwin's concept of the creation of coral reefs by the joint constructive and destructive processes of organic growth and slow subsiding of the foundations is still the classic theory. But as Darwin himself acknowledged, it is oversimplified and incomplete. Modern oceanographers agree that most atolls stand on volcanic foundations which have slowly subsided into the sea. During World War II the U.S. Navy discovered the existence of submerged flat-topped volcanic mountains, called guyots, scattered throughout the depths of the Pacific Ocean. Dredging produced pebbles that had obviously been sculptured by wave action, indicating that in the past these drowned flat-topped mountains had been islands protruding above the surface of the sea. Hence the fact of subsiding, as suggested by Darwin, was sustained. But subsidence is relative; it may result either from sinking of the island foundations or from a rise in sea level.

CONTINUED



EXPLORING THE REEF a half mile off New Caledonia, Dr. René Catala peers through window of his small, foot-propelled craft called a Pedalot. The window can be lowered down into the water for a closer look at reef life.



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## ACKNOWLEDGMENTS

LIFE is indebted to the following scientists for assistance in the preparation of this essay: Drs. Harry S. Ladd and Joshua I. Tracey Jr., U.S. Geological Survey; C. A. Gibson-Hill, Raffles Museum, Singapore; Dr. John W. Wells, Cornell University; Drs. Frederick M. Bayer and Fenner Chace Jr., Smithsonian Institution; F. R. Fosberg, National Academy of Sciences; Dr. René Catala, Noumea Aquarium; Dr. Lucien Pohl; and Dr. S. Dillon Ripley, Yale University.

## DARWIN CONTINUED

Fluctuations in ocean level have occurred repeatedly since prehistoric times as the result of alternate freezing and melting of the polar ice caps, causing sea levels to rise and fall. Recent studies of fossils and rock samples have revealed that the evolution of atolls is more complex than Darwin conceived in his vision of a forthright sequence from fringing reef to barrier reef to atoll.

In 1881, a year before his death, Darwin wrote, "I wish some doubly rich millionaire would take it into his head to have borings made in some of the Pacific and Indian atolls, and bring home cores for slicing from a depth of 500 to 600 feet." His wish has been realized. Deep borings have recently been made at three sites in the Pacific—in the Ellice Islands, the North Borodino Islands and in the Marshall Islands—and have provided important confirmations and revisions of Darwin's ideas. The deepest hole was bored in the Marshall group, at Eniwetok penetrating to 4,600 feet and reaching the foundation on which the earliest substructure of the reef was laid down. It showed that the foundation of the Eniwetok atoll was indeed a submarine volcano, rising two miles from the ocean floor. The volcano at one time projected above sea level. Then, when volcanic action ceased, it slowly sank, and corals and their associated forms of life began building on the submerging slopes. The fossils of these organisms—found in the layers of sediment capping the volcanic foundation, date as far back as the Eocene Period, 60 million years ago. Oceanographers estimate that Eniwetok atoll has been subsiding at the rate of .08 inch per century since that time.

Hence the most recent discoveries of modern science confirm the heart of Darwin's theory of atoll formation, *i.e.*, subsidence. The major revision or emendation of his hypothesis lies simply in the realm of sequence. Darwin himself realized that an atoll could, under certain conditions, form on a submerged bank, without passing through the fringing or barrier stages. Today scientists are inclined to believe that coral formations can occur as the result of uplifts of islands or drops in sea levels, as well as by subsidence and rising sea levels.

Since coral reefs grow too slowly to be observed, all of our knowledge of them is the result of inference and deductive reasoning based on the classic precept of geology—"The present is the key to the past." Darwin's insights into the mystery of coral were inspired, as were all of his discoveries, by his curiosity and wonderment when confronted with the enigmas of nature. On leaving the Cocos Islands on April 12, 1836, he wrote, "I am glad we have visited these islands; such formations surely rank high amongst the wonderful objects of this world... We feel surprise when travelers tell us of the vast dimensions of the Pyramids and other great ruins, but how utterly insignificant are the greatest of these, when compared to these mountains of stone accumulated by the agency of various minute and tender animals! This is a wonder which does not at first strike the eye of the body, but after reflection, the eye of reason."

## LAST OF THE SERIES

## Darwin's Missing Links

Since Darwin's time some "missing links" that indicate the path of evolution have come to light, helping Darwin's great theory. Next and final instalment of this series will show:

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- The primate that walked erect
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It took 12 men more than six hours to haul and push the big Rubens into the auction gallery of Sotheby's in London. But it took one man less than two minutes to snap it up at the highest price ever bid for a painting at auction—\$770,000. Disposal of the huge *Adoration of the Magi* was the climax of a sale of 18 Old Masters from the collection of the second Duke of Westminster, who died in 1953. Pressed by mountainous inheritance taxes, the heirs of the duke, who have already coughed up \$21 million to the Exchequer, decided to part with some of their art treasures.

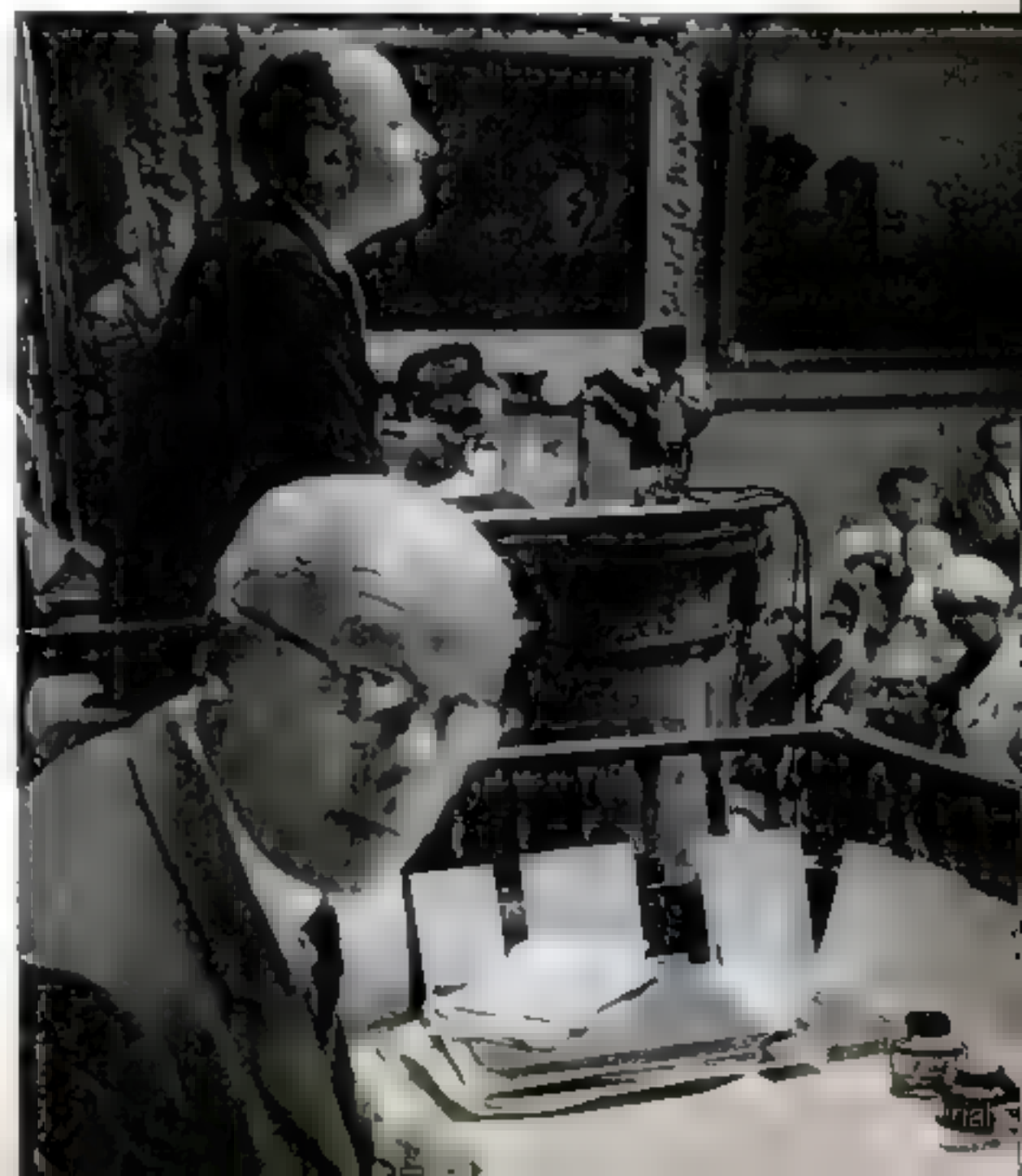
The Croesus who copped the Rubens was and still is—a well-kept secret. His stand-in

at the sale was a tight-lipped London dealer (pp. 74, 75) who disclosed little more than that his client was an Englishman with ample room in which to hang his new acquisitions.

Though miffed by the mystery, Britons were pleased by the outcome of the sale. Newspapers were impressed that such a sizable private fortune still existed in Great Britain. The government was gratified to receive another payment on the Westminster tax bill and museum officials were relieved that the great art was remaining on local soil. As for the Westminster heirs, who once owned the *Blue Boy*, they still have plenty of masterpieces left to brighten the walls of their seven estates.

AUCTIONEER P. WILSON OPENS BIDDING AT MODEST LEVEL OF \$110,000 →

CONTINUED





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**SHE PUT IT UP FOR SALE**



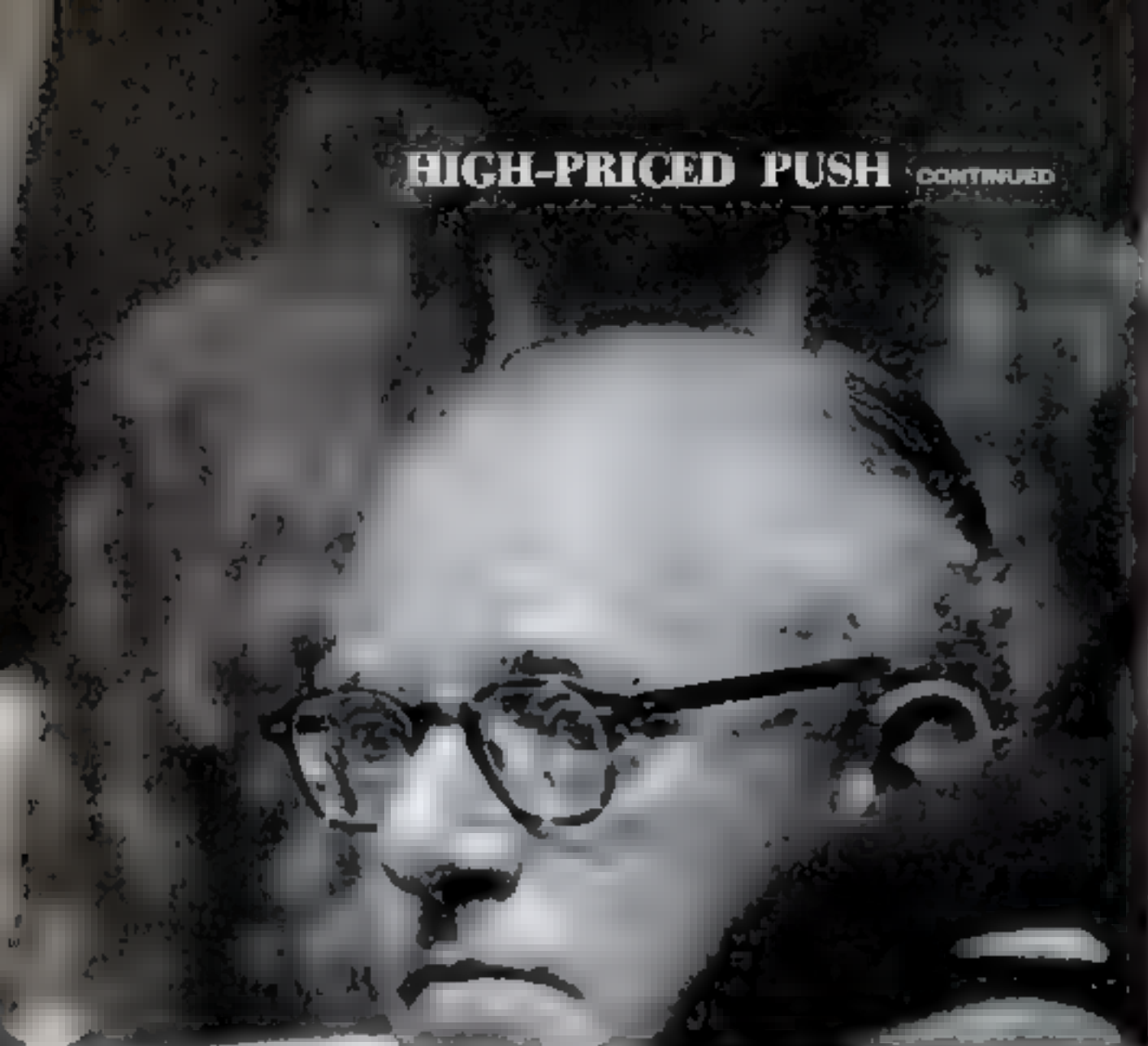
**THEY MADE A STAB AT IT**



**HE PUT THE GRAB ON IT**



## HIGH-PRICED PUSH CONTINUED



Apprehensive as auction begins, Duchess of Westminster squints at painting in block. More than 400 people jammed gallery to watch sale



Oilman J. Paul Getty (right) consults with dealer who bid for him. Though he is richest man in U.S., Getty stopped bidding at \$500,000.



Cool dealer Leonard Koetser (right) got into action when the bidding reached \$450,000. He later described record sum as "very reasonable."

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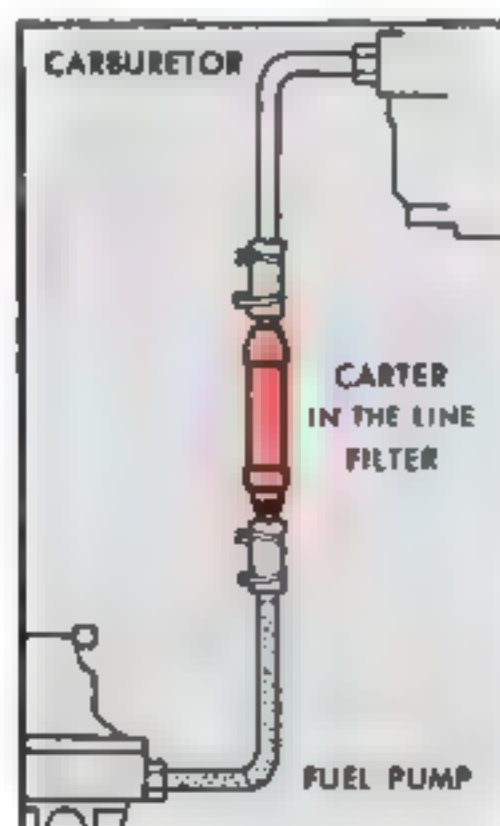
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Your Engine—the Carburetor.**

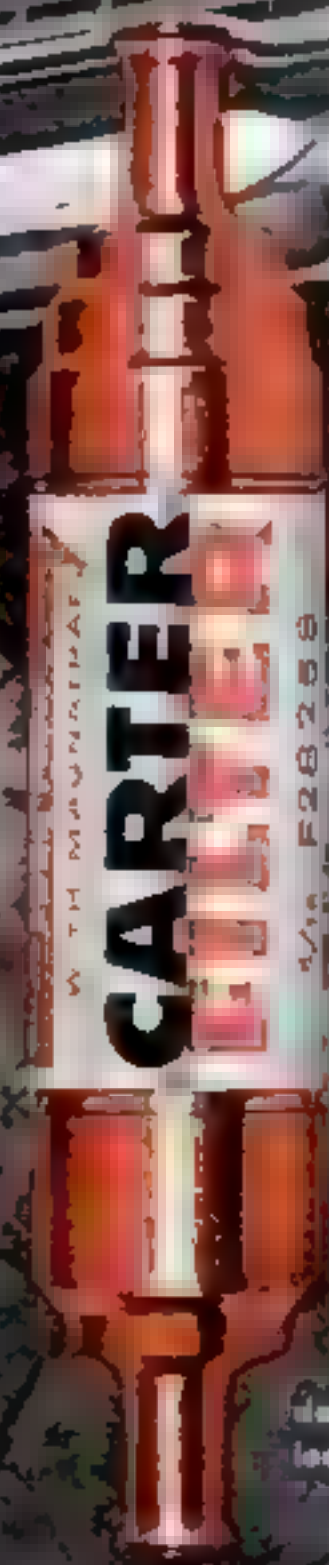
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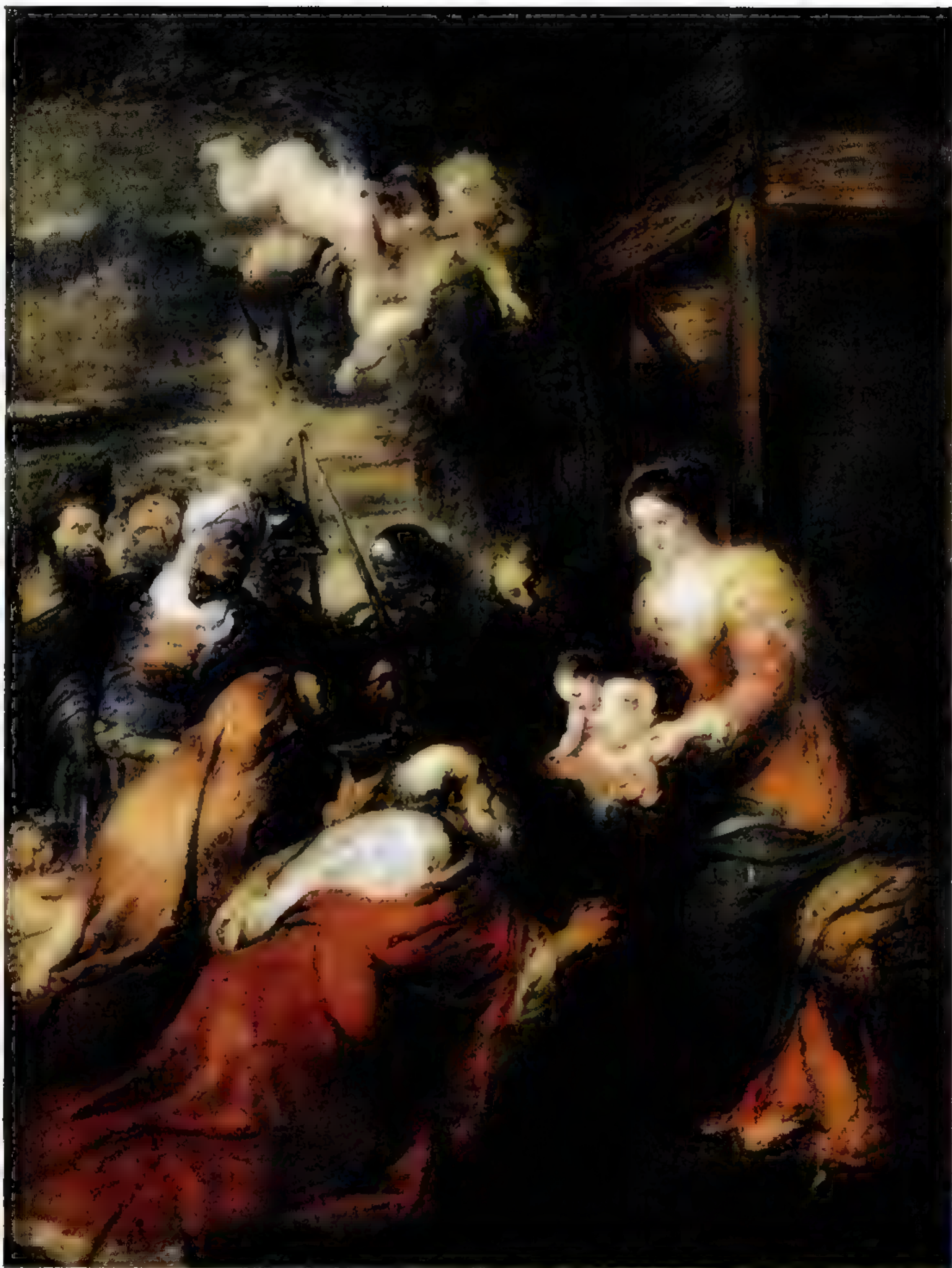
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# RUSSIA'S TWO-HEADED DOG

The two dogs at right were being prepared by Russian surgeons for a fantastic medical experiment. When it was over, the surgeons had created the remarkable animal below—a living two-headed dog. As told on pages 80 and 82, they had grafted the head and forelegs of the small dog onto the neck of the larger one. Both heads could see, hear, smell and swallow.

In 1908 a U.S. scientist, Dr. Charles C. Guthrie, successfully grafted extra heads onto dogs. U.S. research has not followed this lead, but the Russians have, adding refinements of their own. The two-headed dog shown here died accidentally after four days. But others have lived much longer—one for 29 days.

The long-range object of these experiments is to make possible the transplanting from one person to another of healthy tissues and organs to replace those destroyed by disease or accident (LIFE, July 14, 1958). The Russian

team showed that even vulnerable brain tissue can function after being transplanted.

In human beings so far, bone, blood vessels and eye corneas have been transplanted with considerable success. But when more complex organs like kidneys are transplanted, they are always rejected—i.e., attacked and killed by the body's own defensive antibodies—except in the case of identical twins. A search is under way for methods to counteract the body's power to destroy transplants.

The Russians who created the two-headed dog are now considering (p. 82) a human transplant: putting a new leg on a woman who lost her own. A top transplant surgeon, Dr. Joseph E. Murray of Boston, is highly skeptical about this. "Unless the Russians have made some breakthrough we don't know about," he says, "the woman's body would reject the new leg, and it would only have to be re-amputated."



**SUBJECTS OF EXPERIMENT**, the two dogs are ready for operation. Small one is shaved where it will be cut apart. Large one is already anesthetized.

**THIS IS TWO-HEADED DOG SURGEONS CREATED.** SMALL DOG'S HEAD AND FORELEGS, SEVERED FROM ITS BODY, HAVE BEEN GRAFTED TO BIG DOG AT THE NECK.







**LIFTING THEIR CREATION**, Dr. Oleg B. Strelkov (center) and Dr. Vladimir M. Goriainov, Demikhov's assistants, take dog from table after the operation.



**LAPPING UP WATER** the day after the operation, the host dog drinks while surgeons hold forelegs of the new head which is still an unaccustomed burden.



**DRINKING IN TURN**, grafted head laps thirstily. With no stomach attached, water runs through tube onto floor. Head gets nourishment from host's body.

**TWO-HEADED DOG** CONTINUED

# HOW SHAVKA JOINED BRODYAGA

by EDMUND STEVENS  
TIME-LIFE *Moscow Correspondent*

**A**S LIFE Photographer Howard Sochurek walked into the operating room at Moscow's First Medical Institute, he was greeted by querulous, high-pitched barks. They came from a perky little mongrel with floppy ears and a pointed nose. The only unusual thing about the dog was a close-shaved band around the middle of its otherwise shaggy body.

Dr. Vladimir Petrovich Demikhov, a vigorously decisive man with a frank, open manner, introduced himself and his assistant, Dr. Vladimir Mikhailovich Goriainov. Also present were another doctor and a taciturn, capable-looking female surgical nurse.

Demikhov said the little dog was a 9-year-old bitch named Shavka. "Shavka," he explained, "will be cut out for the part of guest head. The host is over there." He pointed to the operating table where a large mongrel lay limp under narcosis. Around its neck and shoulders was a close-shaved area similar to the band around Shavka's middle. While Shavka kept up her random barking, Demikhov said that there was no record of the big dog's origin. It was just a stray picked up in the streets by the dogcatcher. Demikhov called it "Brodyaga," or Tramp, and pointed out that it was indeed a lucky dog. "You know the saying: two heads are better than one."

Just then another mongrel came bounding into the operating room. "Here, Palma," Demikhov called. The dog obeyed, nuzzling his leg and wagging its tail. "See anything unusual about Palma?" Demikhov asked. He called attention to the fresh scars on Palma's chest and explained that six days ago Palma had been equipped with an extra heart, an operation which had also involved major changes in the dog's lung structure. But now it had recovered and seemed almost completely normal.

"You see," he added, "she bears me no ill will for giving her an extra heart. The experiment provides added evidence that the transplanting of organs is entirely feasible. Personally I consider this the coming branch of surgery. It opens up vast new possibilities."

Palma was led away, and a formidable array of surgical instruments was then laid out. Demikhov and Goriainov washed their hands with great care, put on rubber gloves, washed them too, and finally donned gauze masks. They began to operate.

## The first incision

**F**IRST they made an incision at the base of the large dog's neck, exposing the jugular vein, the aorta and a segment of the spinal column. Next they drilled two holes through the bony part of one vertebra and threaded two plastic strings, one red and one white, through each of the holes. This part of the operation took 40 minutes. Shavka was put under narcosis, and her head was wrapped in one towel, her torso in another, leaving exposed only the shaved area round her middle. A breathing tube protruded from her mouth.

Thus prepared, Shavka's limp form was placed on the operating table alongside Brodyaga. Goriainov made the incision, carefully rolling back Shavka's skin. Then he and Demikhov, deftly wielding scalpel, needle and thread, proceeded with infinite pains to expose the small blood vessels, drawing a tight knot of thread around each one in turn as they carved gradually deeper into Shavka's vitals. Finally Demikhov severed the spinal column.

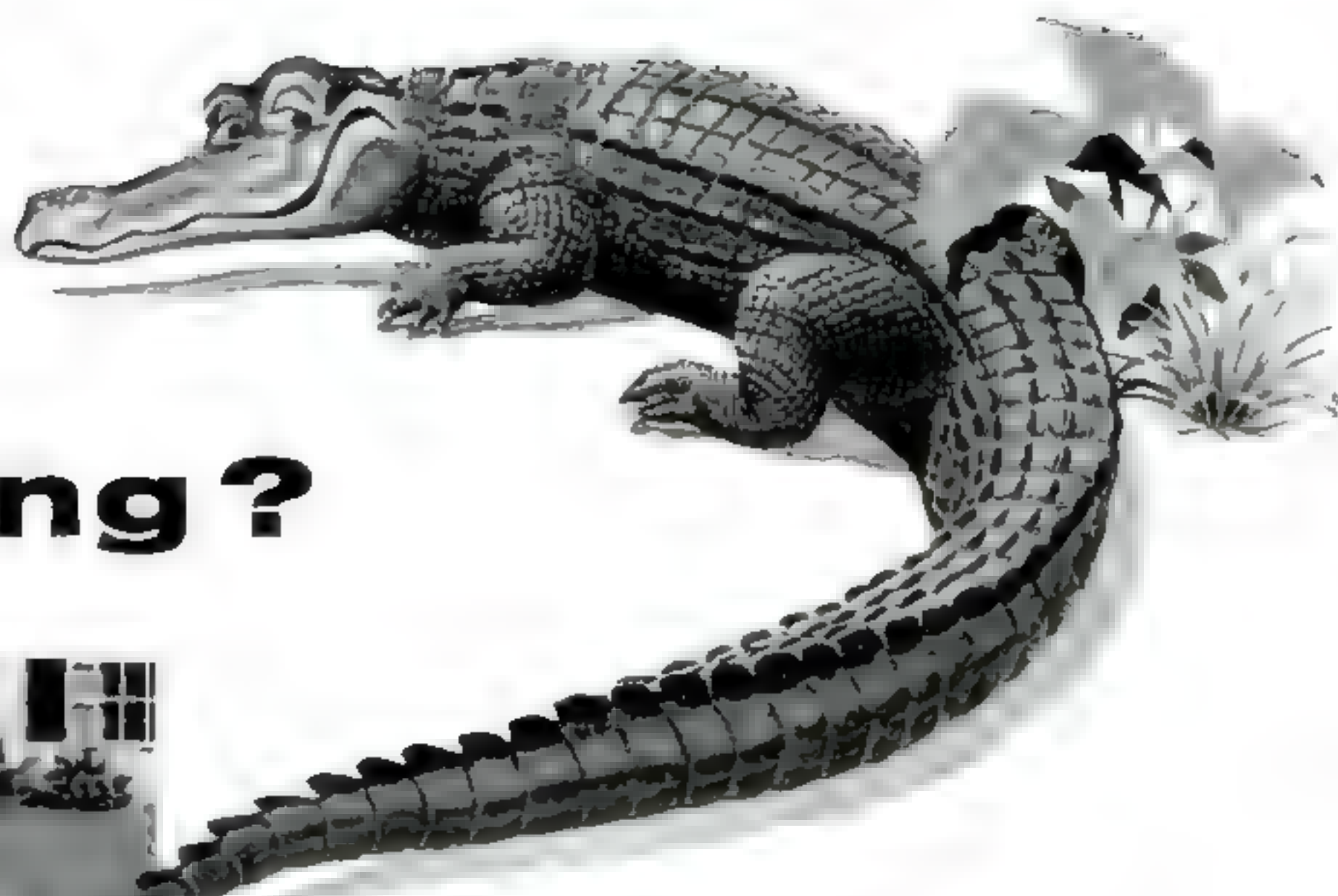
Although the rest of the body had now been amputated, Shavka's head and forepaws still retained and used the lungs and heart. Now began the third and most critical phase of the transplantation. The main blood vessels of Shavka's head had to be connected perfectly with the corresponding vessels of the host dog. Demikhov severed the small dog's arteries and, with a surgical stapling machine which is the Russians' special invention, swiftly spliced them into the exposed vessels in Brodyaga's neck. Shavka's own heart and lungs were then cut away. The plastic strings were pulled taut to secure Shavka's head and forepaws to the big dog's neck. The two surgeons then stitched together the skin of the two dogs and the operation was over. From start to finish it had taken exactly three and a half hours.

For Demikhov and Goriainov, this was their 24th two-headed dog operation since they decided ten years ago that they would do the experiment. Their first operation lasted 12 hours, but since then they have perfected their technique to the point where it is now almost routine.

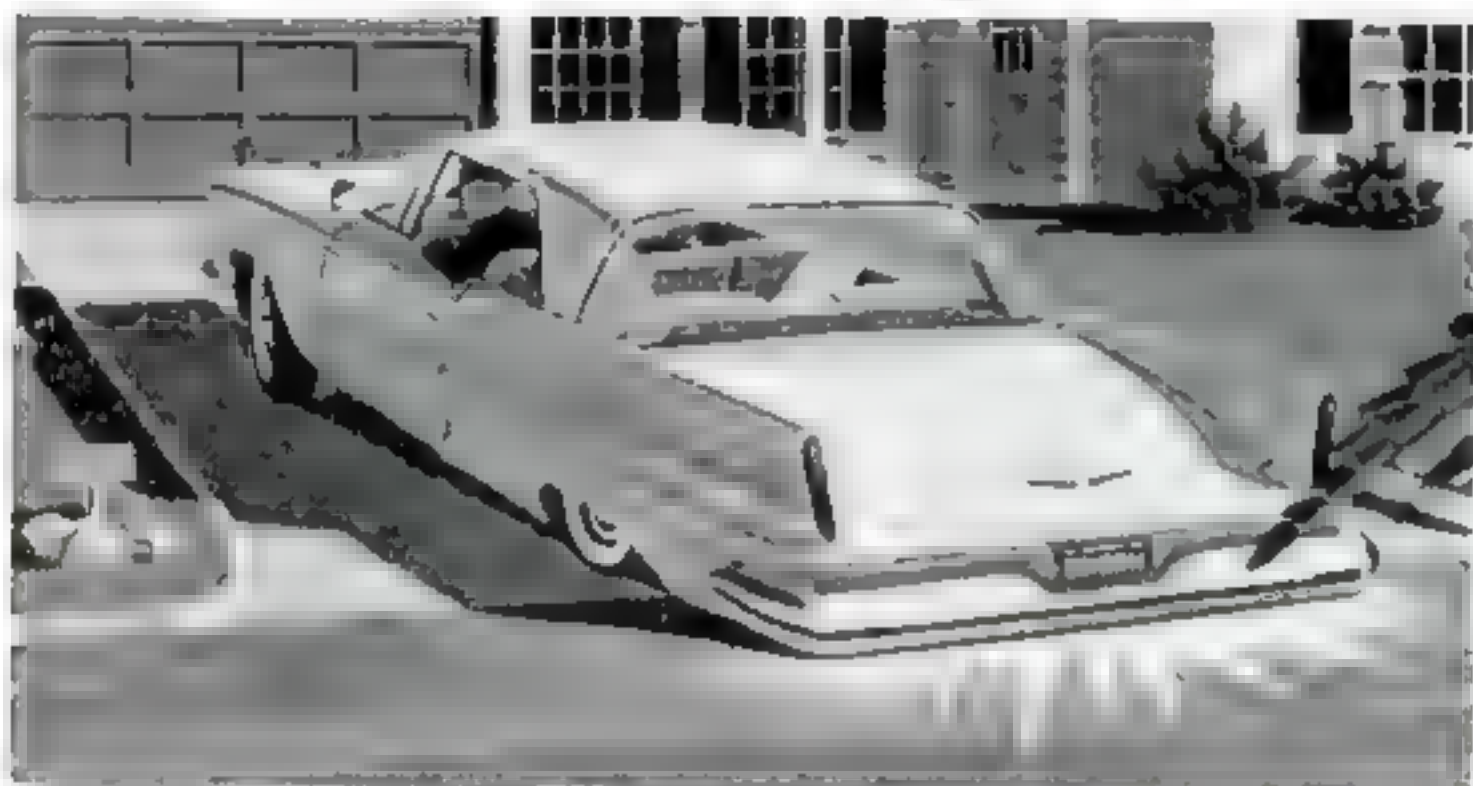
Removing his gloves, Demikhov delicately touched the small dog's eyelid. It flickered. He did the same thing to Brodyaga, and the big dog's

CONTINUED





## Tail dragging?



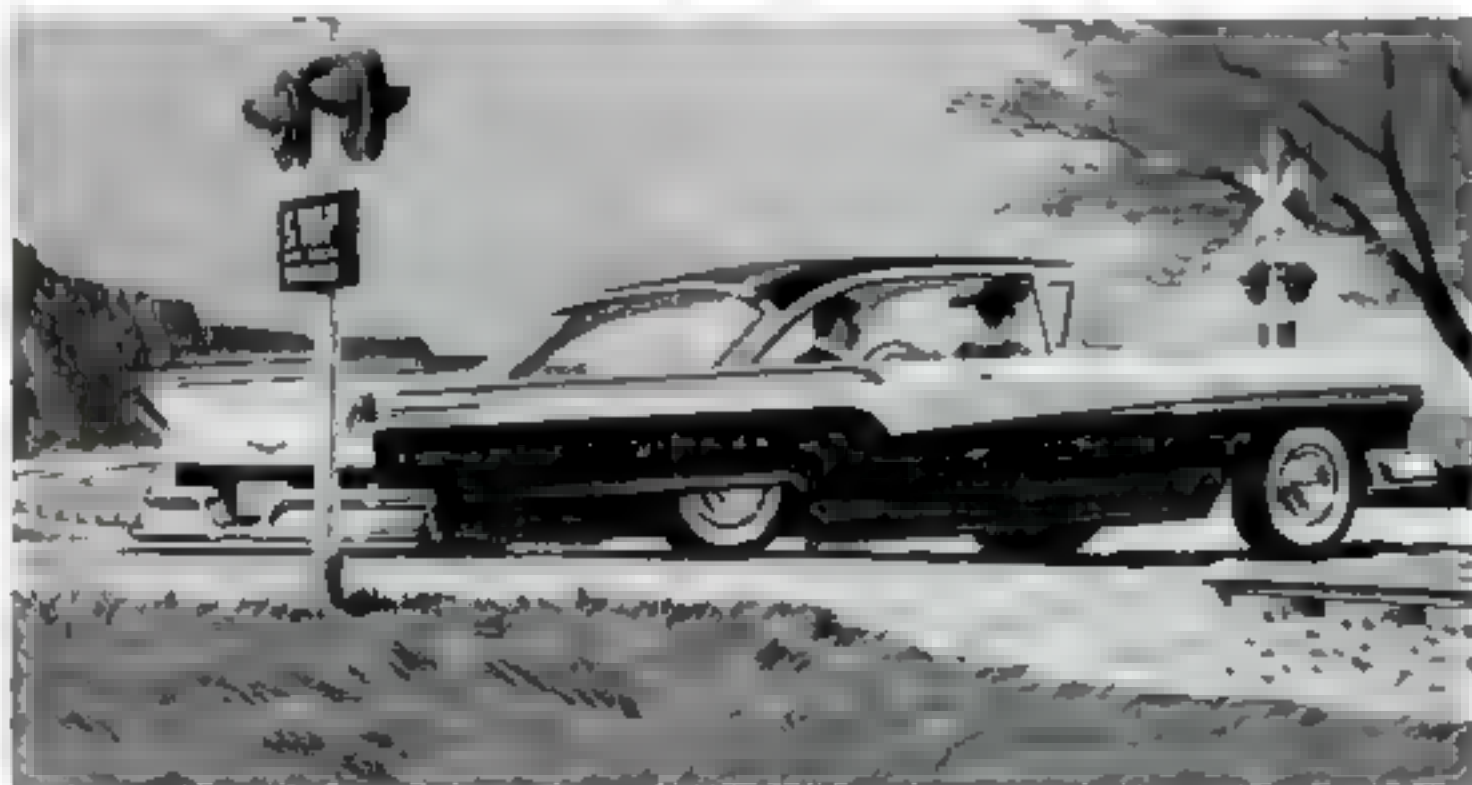
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## TWO-HEADED DOG CONTINUED

lid also flickered. "Well," he said with evident satisfaction, "so far so good. If there are no clots all will be well. Clots are our worst enemy." (Four days later one of the connecting neck veins was accidentally strangled, and during that night both dogs died. But Demikhov considers this an accident, not a surgical failure.)

Later in the doctor's office Demikhov discussed the future of transplants. "I have news for you," he said. "You ask about practical results. Well, in a few months we are moving our entire project to a wing of the Sklifosovsky Institute [Moscow's largest emergency hospital]. This is because we are swiftly outgrowing the experimental stage and must now go on to apply our knowledge to saving human lives. We will begin by establishing a tissue bank. It will eventually include every conceivable part of the human anatomy: corneas, eyeballs, livers, kidneys, hearts, even limbs. Everything will be kept under refrigeration. When we are fully prepared, an accident victim will be brought in with a normally fatal injury to some essential organ. Since a man who is going to die anyway has absolutely nothing to lose, we will try to provide him with the necessary organ from our bank. If the transplanting is successful, he lives. If not—better luck next time."

### The dead will serve the living

**ASKED** where he planned to get his material for the tissue bank, Demikhov said, "That's the easiest part of it. Moscow is a huge city where hundreds of people die daily from various causes. Often, especially with accident victims, the uninjured organs are still perfectly healthy. We shall take what we need from the dead in order to save the living."

"And now," Demikhov continued, "I want to tell you a little story. Some years ago a pretty girl dashed across the street to buy some shoes she had seen in a shop window. She was run over by a streetcar which cut off her leg at the shin. She is now 35 years old and is convinced no man will ever marry her. For the past five years she has been nagging me to provide her with a leg, not a wooden or artificial leg but a real one. It may sound incredible to you, but I have just about decided to attempt it. You see, there will be no risk for the girl. We have discovered in transplanting dogs' heads that the transplanted part is the source of most failure (see p. 79). Even in our most successful operation with a dog who lived for 29 days with two heads, it was the small head, not the host dog, that sickened first. Had we acted in time, we could have saved the host dog. With the girl we shall govern ourselves accordingly. The worst that can happen is that we will have to re-amputate the leg that we try to graft on. When we find a leg of the right size and shape, we will begin by connecting only the blood vessels. If that is successful, we will join the bones together. I think our chance of success is quite good. The main problem will then be joining the nerves so that the woman can control her movements. We still know very little about joining nerve tissue. But I am sure we can lick that problem too."



HEAD OF SURGICAL TEAM, 43-year-old Dr. Vladimir P. Demikhov, holds up electrocardiogram from dog with two hearts.



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AT SAN FRANCISCO'S SENIOR CENTER, WHICH HELPS KEEP ITS MEMBERS VIGOROUS, CAPTAIN FRED YOUNG, 83, JOINS THE GLEE CLUB IN "76 TROMBONES"

# NEW WAYS TO FULL LIVES

Imaginative but sensible solutions keep the aged useful and self-sufficient

The dream of old age is a vision of well-earned leisure, a period of dignified self-sufficiency when men and women do the things they never had time to do before. But comparatively few Americans achieve the dream. One of them is 83-year-old Captain Fred Young, singing out above. He is lucky because he benefits from a fine and fresh approach to the problems of old age. Here, in Part II of its series on Old Age, LIFE reports on some new deals for the aged: the center to which Captain Young belongs, low-rent housing, specialized employment service, and a tender home for the aged.

These are just beginnings of a vitally needed program. Today, as old age comes, millions exist on meager pensions and social security and, their life's work ended, may lose their will to live because of loneliness and idleness. They are so vulnerable that even a minor illness can end their independence and send them prematurely to the empty life of a nursing home. Many of these tragic declines could be prevented by fulfilling two basic human needs: a pleasant place to live and something to do. These are the essence of the new deals which, vastly expanded, could happily fill empty lives.





**MODEST POET,** Mrs. Josephine Sotek, 75, reads poetry to her class as Center's poetry class applies for a record of 100,000 in 1962, on the Day

**TAKING THE AIR** on the Center's balcony, a line of memories, including retired Coast Guard Captain Young, attend from right, looks out at public beach.

## A GAY, BUSY

When leisure longed for during a lifetime of work finally comes, there is usually too much of it. Even a place like San Francisco's Senior Center can be literally a busier place.

For most of its 700 members, whose average age is 74, the Center is the heart of the day. Meet clubs for the aged are open only a few hours a week. The Senior Center, supported by donations and private donations and many hundreds of one dollar a month's open at year, 100 hours a day, six days a week. To be sure, it can be a reason for getting to the center, and a place to come home from a night's replacement for the work of day. "I guess the Center's the biggest thing in my life," says Captain Fred Young. "It's made me feel like I'm younger every year."

By plan, the Center was placed right next door to the Aquatic Park public swimming beach. There it is surrounded with life, surrounded by children, artists, and the aroma of hot dogs and beach. "You report







## DAY CENTER

of the world, not stuck off in a corner," says Captain Young. The days are filled with craft work in special shops, a glee club, language courses, poetry groups, bridge classes and Friday evening dances. In the hobbies many members discover new skills and unexplored creativeness. But the deepest purpose is to give the lonely old person something to do with another friendly human being.

Compared to the need, there are pitifully few such centers in the U.S. The Senior Center, founded in 1947 and the second oldest in the nation, is still the only one in San Francisco open all week. But city welfare departments, public housing authorities and labor unions recognize them as a vital aid for the aged. A study of day centers in New York City found that when a group of old people joined a full-time center, their visits to a medical clinic dropped by 70%. In seven years, when statistically over 50 members should have entered a mental hospital, there was only one who did.



**IN WEAVING SHOP**, Grace Smith, 71, a widow and ex-governess from Kansas, happily holds a skein of yarn so that instructor can wind it into a ball.



**AT LOOM**, engrossed in mastering new skill, Ralph Markle, a 69-year-old ex-storekeeper, plumber and hotel clerk, enjoys feeling that he's "useful again."



## YOUNG NEIGHBOR ON HIS ROUNDS



OFF ON DAILY VISITS, ROBY MCCOY, 20 MONTHS, RUNS TO APARTMENT OF MARY MOSER, WHERE HE LOOKS FOR COOKIES IN CUPBOARD. HE GIVES HER A BITE OF



**ENGAGED COUPLE.** 63-year-old residents, Walter Redstein and Hazel Johnson, plan their marriage over coffee in his apartment where they will live. A widow and widower, both childless, they met each other at the housing development.

**AT FAMILY PARTY.** William Rouda, 77, holds granddaughter, Audrey, 14, on knee while another, Patty, 13, eats dessert at left. Parties in apartment gave him and wife sense of independence.







ONE AND GOES TO NEXT STOP, MARIE SHERIDAN 78, AND ANOTHER COOKIE. HE ENDS WITH MRS. EDNA POWELL, 85, AND NEIGHBOR'S CHILD BRIAN GROSE, 21 MONTHS



## LIFE-FILLED, LOW-PRICED HOUSING

The children, they kinda keep you young," says Mary Messer, 73, who lives in Cleveland's low-cost housing project for the aged. "The youngsters run in here every day, the curly one especially. It's fine." The "curly one," 20-month-old Roby McCoy, makes his rounds of delighted victims (*above*) as the result of a careful plan by the city housing authority. Its director, Ernest Bohm, explains: "We realized that old folks want more excitement than too good and coming of automobiles."

To keep the aged in the thick of things, four of the 12 apartments on each floor are occupied by young couples with children under 5. When the children grow older, the family is moved out into the surrounding Cedar Apartments public development. To make the 14-story apartments physically livable for the elderly residents, there are elevators, nonskid floors and bars over tubs and toilets. To keep the residents' days busy, the first floor is a Golden Age Club with hobby shops and activities similar to San Francisco's Senior Center.

The very existence of the apartments keeps the elderly self-respecting, self-supporting citizens. On their meager income, which must be under \$2,400 a year per couple, they can afford rents which average \$30 a month. They have the benefit of living like anybody else, independent of relatives or an institution.

If the development's old people were cut off from normal human living, they might end up in hospitals unnecessarily. In fact, one fifth of the aged now in hospitals could fend for themselves in housing like Cleveland's. But they would need added help of a kind already available in some communities—visiting nurses and housekeepers, deliveries of one hot meal a day. In places where these services into the home have been tried, benefits are enormous. They cost a community far less than keeping the aged in hospitals or nursing homes. And even more important, they help to preserve the aged's precious, life-giving independence.



## A SEARCH FOR A JOB TO FIGHT IDLENESS



**HUNT FOR WORK** — An elderly man, Robert, sits on a bench in a park with other workers waiting for a job at New York State Employment Service. He is a retired upholsterer who has been unemployed for several months.

at New York State Employment Service. He is a retired upholsterer who has been unemployed for several months. At bottom, he gets help from boss, Zoltan, who is a retired upholsterer.



AT CARROLL MANOR, A DE LUXE HOME FOR THE

## RETIREMENT

At 65 the American worker faces a mandatory cut-off point at which he is forced to give up his job. At present those arbitrarily retired find it nearly impossible to get other jobs. Employers reject them. The social security law discourages them from trying. Workers between 65 and 72 lose a bite out of their benefits if they earn over \$1,200—a limit which many believe should be raised but not eliminated.

One of the many thousands of men over 65, eager for work and sick of idleness, is Charles Rheinheimer (left), a retired upholsterer in good health at 75. He did finally get a job but





AGED, RESIDENTS ENJOY ONE OF HIGHLY ANTICIPATED TIMES OF THE WEEK—THE WEDNESDAYS AND SUNDAYS WHEN THE HOME'S COCKTAIL LOUNGE IS OPEN

## IN TWO WAYS: WORK, TRANQUIL HOME

only with specialized help after two years of fruitlessly following up want ads. Employers believe that the aged are too slow and too weak to work and would be entitled to expensive pensions after only a few years.

Though widely accepted, these beliefs do not apply to large numbers of workers. A national five-year study by Consolidated Edison found that 20% of their employees at age 65 were still rated much above the average. The Federal Department of Labor has found that only 14% of all jobs demand unusual physical exertion. Eligibility for most pension plans

requires 10 years' service, and for the worker hired at or over 65 there are generally no pensions and no expense. Consolidated Edison now has flexible retirement and is keeping 300 workers on till age 68. It expects to save \$680,000 a year in pension payments while the government saves \$560,000 in social security.

For the day when physical decline does compel retirement, there are a few fine homes for the aged like Carroll Manor (*above*) near Washington, D.C. It is a place of tender care, a place where days can be ended in peace. Run much like a residential hotel by devotedly

efficient Roman Catholic Carmelite sisters, it has 200 residents, paying up to \$150 a month, or \$300 if they are sick.

Unlike Carroll Manor, the vast majority of homes for the aged do not accept the ill—who must then turn to a nursing home which, except by charging very high rates, cannot afford to give the kind of care given at Carroll Manor. But more and more homes for the aged, usually supported by religious organizations, are adding infirmaries. Then, come sickness or destitution, they can lavish the dedicated, cheerful care shown on the next pages.



The nuns at Carroll Manor pursue their gentle duties.  
Below, Sister Maureen Therese and Mamie Lucas, 88.  
Opposite, Sister Bernadette Joseph and Henry Cumberland, 89







Just when I thought spirited old people  
have worked out their own  
varying solutions to problems of aging.



# WHERE I STAND



## Egypt's ambitious leader argues his refusal to tie himself to

*At the request of the editors of LIFE, President Nasser prepared this article presenting his views on specific Middle Eastern issues as they bear upon the Arab nationalism which he champions. His comments on Communism, "Western imperialism," Israel and economic development in the U.A.R. are given as he told them to LIFE Associate Editor Keith Wheeler.*

**I**T is now seven years since the 1952 revolution freed Egypt from the corrupt regime of King Farouk and the foreign influences which dominated him. Preserving that freedom has not been easy. Many times in these seven years those who have wanted to challenge or abridge our freedom have profoundly shaken Egypt—and more recently both the Egyptian and Syrian regions of the United Arab Republic.

As for me, my seven years of working to preserve that freedom have caused me to be called many names by the outside world.

I have been attacked in the press of Israel and the West. And I have been attacked just as bitterly by Communist papers, all the way from the *Daily Worker* in London to the *Red Flag* in Peking.

Some in the West have called me a "Hitler of the Nile" or an "Arab imperialist." In Iraq, which is now caught between East and West, it

was recently said by the president of the so-called People's Court that I conspire with Zionist and French imperialists. Sometimes my critics in the West assert that I am responsible for opening the Middle East to Communism. Now, to make the confusion complete, some people in the West have praised me as a fighter against Communism. Perhaps even Mr. Khrushchev agrees with that because he recently described me as a "hotheaded young man."

I find this storm of paradoxical epithets strange, if not always amusing. If all of them were true I would have to be an extraordinarily inconsistent man, one who changed his mind and policy almost every day.

I have often been called a "fanatic Arab nationalist." If that is an accusation I confess to part of it. An Arab nationalist I am. A fanatic I am not. The fact is that I came into the Egyptian revolution as an Egyptian patriot and an Arab nationalist. I remain so today. This means that for me my country and the Arab nation of which it is a part come first. My words and deeds have all been consistent with this belief. That is why I have welcomed this invitation to put the record straight in an article for LIFE magazine.

To me, Arab nationalism means many things. Above all it is a spiritual



# AND WHY BY GAMAL ABDEL NASSER

*[Handwritten signature of Gamal Abdel Nasser]*



A GIFTED CONVERSATIONALIST. Nasser in his Cairo home shows the volubility that makes him especially effective with small groups of listeners.

## East or West is best for Arab world

drive, a voluntary solidarity of the Arab peoples everywhere based on a common heritage of language, culture and history. This is a feeling that comes from the heart; it cannot be imposed. It comes out of the Arab past, but it can also confer great practical benefits on the Arabs today. By military solidarity and by voluntary cooperation in economics, culture and foreign policy the Arab nations can grow strong in their own right.

### Freedom from outside influence

**O**NE of the fundamental aims of Arab nationalism is independence. That means abolishing the colonial social structure that we inherited from our years of being dominated, first by the Ottoman Turks and then by the French and British. Independence means freedom to make our own decisions, freedom to keep outside anybody's sphere of influence.

Some people find our policy of positive neutrality difficult to understand. Others try to break it down by intrigues and political maneuvering.

Two months ago, for example, in an interview with a newspaperman

from the U.S. I said I thought the Soviet Union deserved another opportunity to show that it would cooperate with us. A short while before that I had publicly described the Communists in Iraq as foreign agents, and as a result there had been some strain between us and the U.S.S.R. Now, after the interview, there were comments in the American press that Nasser was again betraying the West and could not be trusted because first I had said that I was against Communism and later I had said I was willing to give the U.S.S.R. another chance.

In the first place the fact that I criticized the Soviet Union never did mean that I was aligning my country with the U.S. I had simply attacked Communism without consulting the Americans. I had not said, "I am going to attack Communism; what will you pay for that?" The same is true on the other side. If the Soviets think I am aligned with them, they are wrong. As I said in Moscow, the U.A.R. welcomes co-existence between countries of differing social and political systems, but our policy toward all is nonalignment and positive neutrality.

This is something which the Americans, particularly, appear to find difficult to believe. As a result there has been a long period of strain between us. When I first met Secretary of State John Foster Dulles in

**TEXT CONTINUES ON PAGE 100**

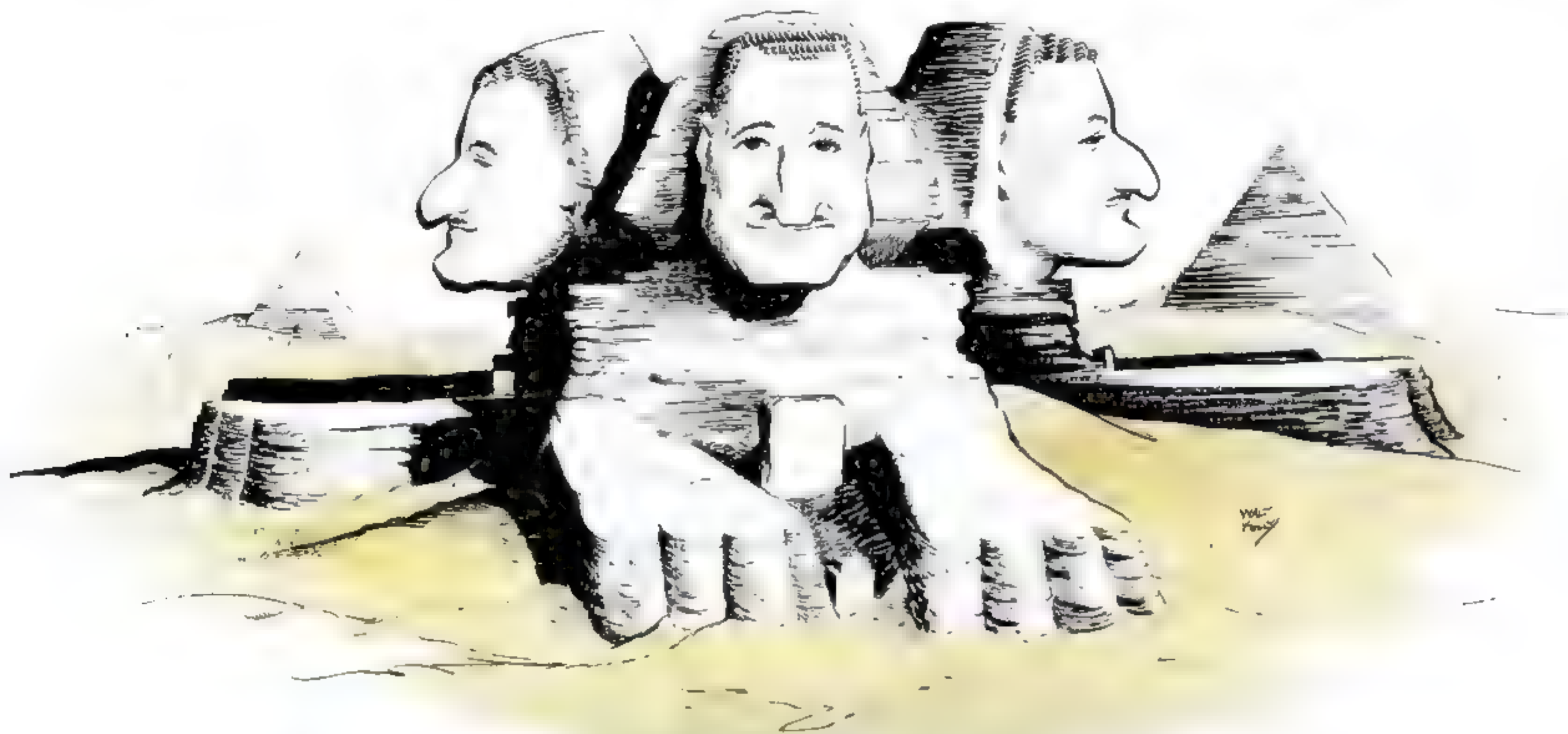
**ON NEXT PAGE, HISTORY OF NASSER'S MOVES**



# NASSER'S THREE FACES TO THE WORLD

In the article which begins on the preceding pages, President Nasser of the U.A.R. makes his justification for the various faces he has presented to the world—faces which have seemed changeable and contradictory. Both East and West have considered Nasser's policies inconsistent and opportunistic while between 1955 and 1959 he has veered from damning the West to damning the East. Below are chronologies of events which

have occurred under the different faces of Nasser. With regard to both West and East his actions have most often been reactions to outside pressures. But, with regard to other Arab leaders, he too has been guilty of exerting interfering pressures. President Nasser's article must be read both as the official statement of a head of state and the manifesto of a man convinced of the Arab destiny and of his own as its prophet.



## Facing West

- In October 1954, after two years of negotiation with friendly U.S. aid, Nasser got a treaty in which Britain agreed to give up its 74-year hold on the Suez Canal zone. Egyptian-Western relations were at their best.
- In February 1955 Israel made its first big attack since 1948-49 on the Egyptian army in the Gaza Strip. In direct response Nasser, who had been denied arms by the U.S., turned East. He bought Russian arms via Czechoslovakia.
- In November 1955, under U.S. auspices, the Baghdad Pact linked Britain, Turkey, Iraq, Iran and Pakistan. Nasser was bitterly opposed to inclusion of Iraq, an Arab state.
- In May 1956 Nasser defied U.S. pressure and displeasure by recognizing Red China.
- In July 1956, after Britain and the U.S. agreed to help finance Egypt's High Dam on the Nile, Secretary Dulles abruptly withdrew the offer, casting doubt on "the ability of Egypt to devote adequate resources" to the project.
- Seven days later, having advised the U.S. that it might "choke with rage," Nasser nationalized the Suez Canal and said Egypt would build the High Dam with canal income.
- In October 1956 the Suez war began when Israel attacked in Egypt's Sinai desert. Britain and France, with forces massed at Cyprus and Malta, joined the attack on Egypt.
- In November 1956 the U.S. joined a 57-0 U.N. vote to stop the attack on Egypt.
- This month U.S. aid to Egypt was resumed with an \$8 million technical help agreement.

## Facing the Arabs

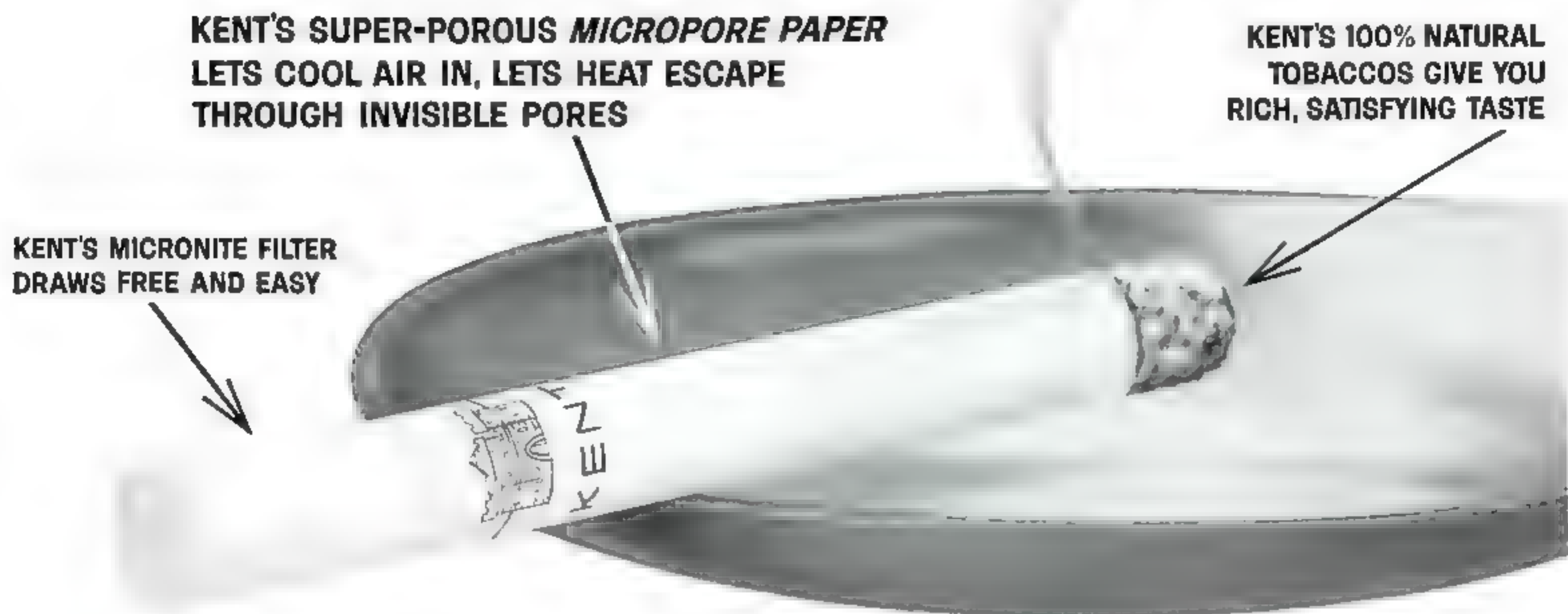
- In 1954, in a book, *The Philosophy of the Revolution*, Nasser wrote of "a role in search of a hero" beckoning Egypt to "spark the tremendous latent strengths in the region surrounding us." To the outside world it has often seemed Nasser meant this role for himself.
- In January 1955, to block the forthcoming Baghdad Pact, Nasser called Arab League states to Cairo to revitalize their military pact. When Prime Minister Nuri es Said of Iraq stayed away, Nasser attacked him as a Western puppet.
- In January 1956, launching the new Egyptian constitution, Nasser proclaimed an indivisible Arab nation "from the Atlantic to the Persian Gulf" and asserted Egypt's destiny as an integral "part of the Arab structure."
- In 1956-57, for meddling in local affairs, Egypt's military attachés were denounced or expelled from six Arab countries, Iraq, Lebanon, Libya, the Sudan, Saudi Arabia, Tunisia.
- In March 1957, having first encouraged King Hussein of Jordan to reject the Baghdad Pact and throw off British influence, Nasser (with Syria and Saudi Arabia) offered to subsidize Jordan. The promise was never fulfilled.
- In February 1958 Egypt and Syria merged themselves in the United Arab Republic.
- In July 1958, in a revolt encouraged by Nasser's press and radio, Iraqi army officers overthrew King Faisal and Nasser's old enemy, Nuri es Said. Later, after the failure of a counterrevolt by pro-Nasser Arab nationalists, Nasser turned against the new Iraqi regime.

## Facing East

- In 1955 Nasser made his first commercial deal with the East. Subsequent deals, culminating in the present Russian commitment to build the High Dam, tied Egypt's economy—later that of the U.A.R.—to the East.
- In November 1956, grateful for Russian support in the Suez attack, Nasser refused to join the U.N. in condemning Russia's savage suppression of the Hungarian freedom fighters.
- In March 1958, continuing a long-time fight against internal Communism, Nasser seized assets of the Reds in both regions of the U.A.R.
- In May 1958 Nasser paid his first visit to Russia. Khrushchev pledged Soviet support for union of "the Arab people" under Nasser.
- In December 1958 Red leaders were arrested in the U.A.R. and a Syrian Red paper closed.
- In March 1959 Nasser made his first open break with Russia by accusing the Soviets of interfering in revolutionary Iraq and fostering a rift among Arab nationalists.
- Eight days later Khrushchev called Nasser a "hotheaded young man" who had taken on himself "more than his stature permitted." Stung, Nasser accused Khrushchev of "unacceptable interference" and asserted that "with my hotheadedness the U.A.R. will win against the new agents of Communism."
- In April 1959 the controlled Cairo press at last took cognizance of what Communism had done to Hungary. A 1956 *Life* book, showing Russia's atrocities, was republished in Arabic and became a sensational best-seller.



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IN FIRST MOSCOW VISIT in May 1958 Nasser jested with Khrushchev. He toured industrial plants and farms and was impressed by Russian progress.

### NASSER: CONTINUED FROM PAGE 27

1953, I told him that I felt the main danger to the Middle East was its internal instability, the danger of invasion from within. But Mr. Dulles insisted that the main danger was from outside aggression, and the policy of the West became one of persuading the Arab countries to participate in pacts and Middle East defense organizations.

I feared alignment with any outside power because I know the Arab history and the Arab peoples. For hundreds of years they had been accustomed to look upon their governments with fear and suspicion as the agents of foreign powers, as governments which took their orders from ambassadors. I knew that participating in a foreign pact would isolate our own nationalist elements and leave leadership of the people to either the Communists or the fanatical movements such as the Moslem Brotherhood. If defensive pacts are necessary in the Arab world they should be formed by the Arab countries alone, for the people must feel that they are really independent. They must feel that they are defending their own families, their own children, their own property—not British or American interests.

There is another compelling reason why I am against the alignment of Arab countries with any of the big powers. Such an alignment could open the door for the big power to become dominant, and to bring back imperialism and colonialism to the Arab lands.

Although I argued against Arab alliances with other powers, Iraq's late Prime Minister Nuri es Said in 1955 accepted the Baghdad Pact. It was thus that the ill feeling began between us and Nuri and between us and America. Now after four years the old regime in Iraq is deposed and the Baghdad Pact is gone. Those four years proved that I was right. It is clear now that the threat to Iraq was not from outside but from weakness within—both from Communists and non-Communists.

### Russia was already here

IT has been charged that I brought Communism to the Middle East because Egypt began in 1955 to engage in commercial relations with the Soviet Union. The charge is not true. The Soviet-Egyptian arms deal did not bring Russia into the Middle East, because Russia was already here. None of us can close our eyes to that fact, any more than we can pretend that the Soviet Union is not a big world power. It is a world power, and people everywhere are following its activities with as much interest as they follow the activities of America.

Our arms purchase from Russia was a commercial transaction, without strings or conditions. At the time of the deal the Communist party was illegal in Egypt, and it still is.

Elsewhere in the Middle East, on the other hand, the Communist party has always been strong. In Israel, for example, it is legally recognized (Certainly I cannot be held responsible for that!).

It also should be remembered that there was a Communist movement in Iraq as early as 1930. Although over the years Nuri es Said put many opposition leaders in prison, the Communists went underground and their big leaders escaped. And so, when the revolution against Nuri came last year, the Communists were organized and ready to act while the sincere nationalists were dispersed and ineffective.

Who did most to encourage the Communists in Iraq? Not the Russians; they did not even have an embassy in Baghdad. Not Egypt: relations between Nuri and Egypt were not friendly, so Egypt had no opportunity to help the Iraqi Communists. No, I think we must admit that the major responsibility for Communist growth in the Middle East, particularly in Iraq, must be taken by the Western countries. By supporting undesirable leaders like Nuri who sought to suppress legitimate



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**NEW FORCE IN ARAB NATIONALISM**, Iraq's Abdul Karim Kassem recently cracked down on Communists, tempering Nasser's opposition to him.

### NASSER CONTINUED

national movements, the West furnished a fertile soil for Communism.

I do not mean to imply, of course, that the Communists in the Middle East do not have support from Communists elsewhere. I have said plainly in my speeches that, according to our information, the Communist party in Egypt has been in touch with the Communists in Italy. And of course there are ties among all the Communist parties. In April and May this year Communist radios and newspapers attacked me from Bulgaria to China. With all that music in harmony, there must be one maestro somewhere. (Mr. Khrushchev has told me Russia was not responsible for these attacks. Well, as I said in a press interview, we will wait and see.)

While the Communists have been attacking me, I have been attacking them. In Egypt, of course, Communism has been under attack steadily for the seven years of the revolution. Last December we had to expose the tactics of the Syrian Communists, who had formed a strange alliance with the feudalist landowners in opposition to government land reform measures. The feudalists were against land reform, of course, because it took away their property. The Communists were against it because it would make landowners of a million Syrians who had heretofore owned nothing, thus ending any interest they might have had in Communism.

In a speech last March 11, I attacked the Iraqi Communists, who were making a concentrated assault against Arab nationalism, the U.A.R. and Nasser. I described them as agents of a foreign power. This offended Mr. Khrushchev, who said I was making an attack on the Soviet Union. I was also criticized in the Western press on the ground that my attacks were driving Iraq into the hands of the Communists.

But the fact is, as I have said, that it is not our policy to be hostile either to the West or to the Soviet Union. Our attacks on the Communists in Syria and Iraq had a simple and necessary objective. We wanted to inoculate our people in the U.A.R. against Communist infection, to put them on guard against the penetration planned by the combined plotting of all the Communists in the Middle East. This aim has been achieved, and therefore we have relaxed our attack on Communist influences in Iraq. But we are still watching the Communists because we know they can never relent in their opposition to Arab nationalism and the U.A.R.

The Communists have feared Arab nationalism in Iraq from the very first. After the Iraqi revolution, slogans of Arab nationalism went up all over the country. The Communists, afraid there might be a union of Iraq with the U.A.R., tried by every means to make the people believe that the U.A.R. was conspiring against their new freedom, their achievements and their natural resources.

Because I knew about this, I at once sent word to Abdul Karim Kassem, the Iraqi revolutionary leader, that the U.A.R. was not seeking union. I advised him that his first job was to unite his country so that it could face the threats that would come from outside—from the British and Americans then in Jordan and Lebanon. In fact, I do not believe I would have accepted union then even if Iraq had sought it. I thought that any such action at that time would invite intervention, especially by the British. Therefore when an Iraqi delegation came to me four days after the revolution, I suggested that our military agreement, plus economic and cultural agreements, should be the sole basis of solidarity between our countries.

Today the Communists of Syria, Lebanon, Jordan and Iraq are all

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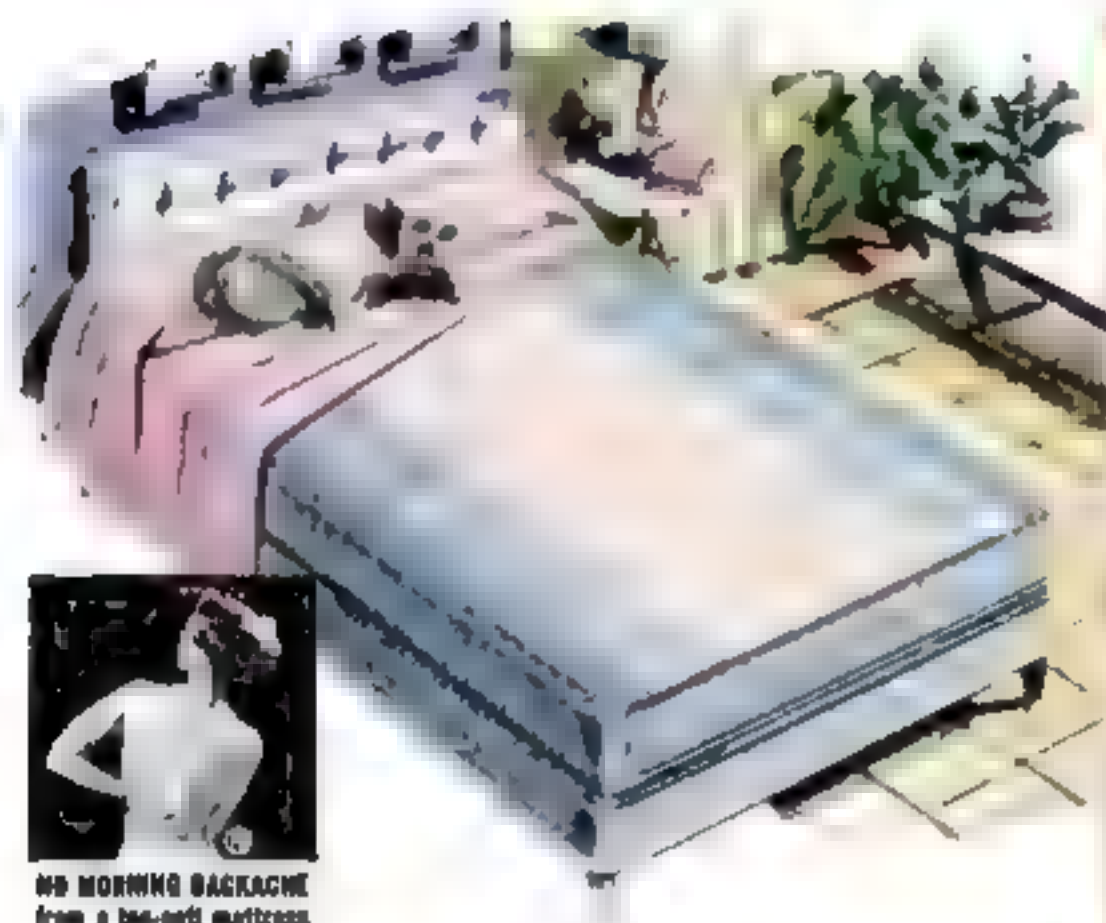


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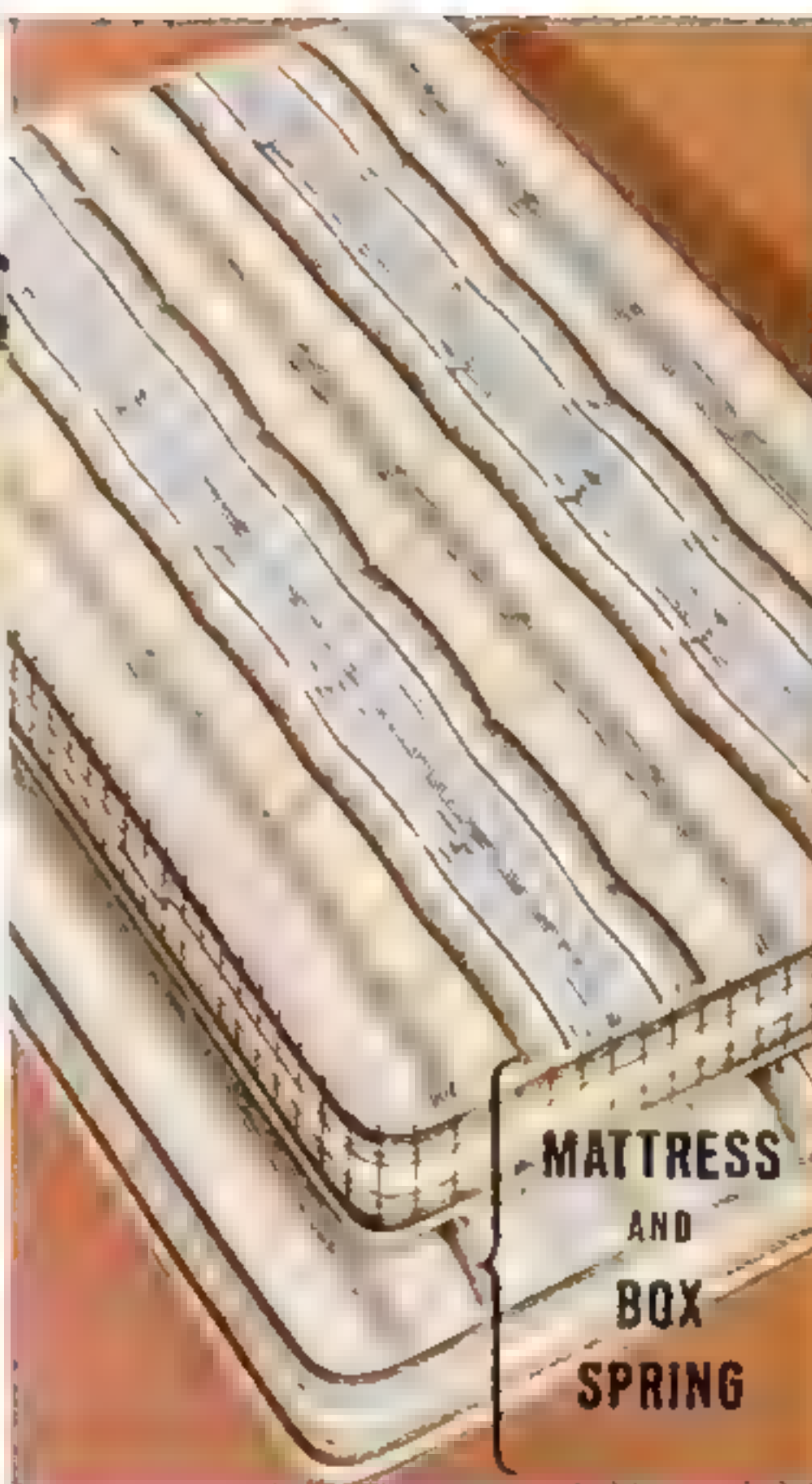
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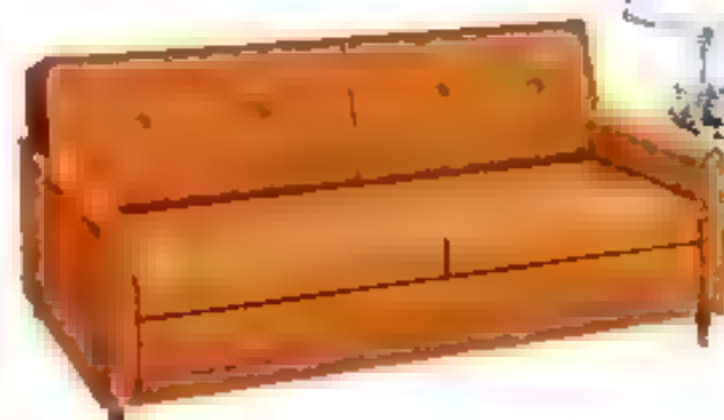
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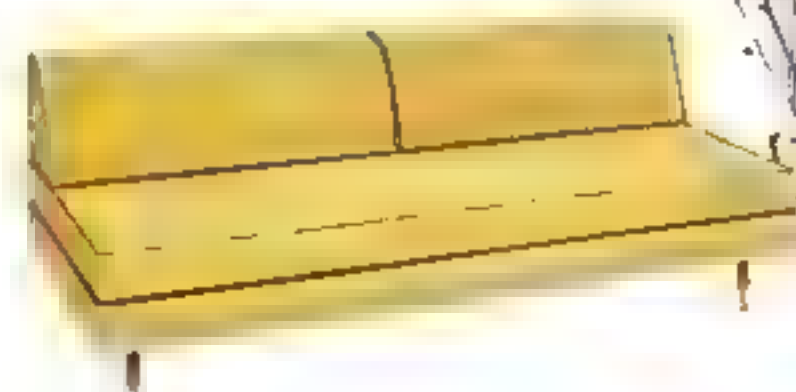
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**CELEBRATING NEW STATE**, Nasser and Syria's President Shukri al-Kuwatly greeted crowds last year after founding of United Arab Republic.

## NASSER CONTINUED

working together. Their immediate objective is to create trouble in Syria so as to split the U.A.R. Their ultimate objective is that of Communist parties everywhere: to take power. If the Communists are able to secure a firm base in Iraq, they can use it to operate against Syria, Jordan, Saudi Arabia, Lebanon and Kuwait. Communist leaders, in their meetings since the Iraq revolt, have agreed that their goal must be a Communist Fertile Crescent in the Middle East.

In all this intrigue, in all this maneuvering for advantage in the Middle East, one may well ask what has become of the old enemy of Arab nationalism, Western imperialism? And I must answer that in a very real sense it is still with us, still very much involved in the intrigues and maneuvering. Some British interests, for instance, feel they should work against Arab nationalism in Iraq because it could lead to domination of the Middle East by Nasser—and an Iraq in chaos or even under Communism would be better than that.

I can understand such a fear, but I hope I may be forgiven if I do not sympathize with it. I do not wish to dominate the Middle East. Indeed, I believe the British fear me less as a person than as a symbol. I think they still hope to keep some parts of the Middle East under their influence, surely Kuwait and perhaps, even now, Iraq. The ideas of independence which I advocate are a threat to these British ambitions. So it is not Nasser that these imperialists fear but the ideal for which Nasser stands.

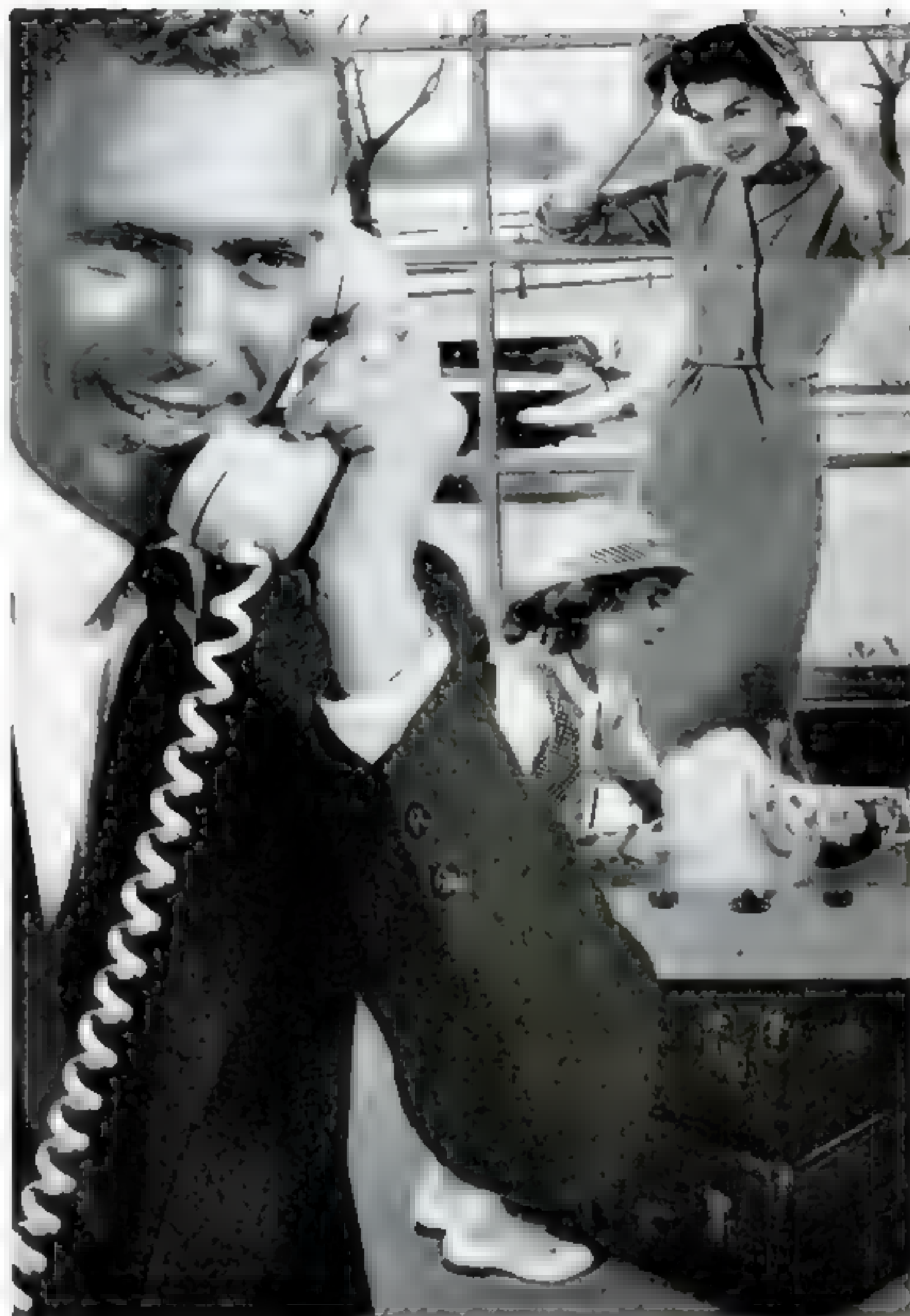
In the Middle Eastern maneuvering, Israel naturally plays an important part. It is fashionable among Arabs to say that Israel is a pawn of Western imperialism—or the reverse. I do not think these ideas are entirely without foundation. Indeed, recently enough so that we can still see the scars, the Israeli and British and French joined against us in as bold an act of imperialist aggression as I shall ever see: their joint invasion of the Suez area. Even today, largely I think because of our sympathy with the Algerian struggle for freedom, the French supply the Israelis with every weapon that might serve as an instrument of potential aggression against us.

It is clear that not all the Western nations support Israeli aggression. During the Suez invasion the U.S. showed it was opposed to the tripartite attack against us. Nevertheless, I know that Israel has powerful support in the U.S., both in the Congress and among the people through the organized Zionist movement.

### A recent canal crisis

**N**OW we are dealing with one more Israeli maneuver. In May, knowing very well what they were doing and why they were doing it, the Israelis sent a chartered Danish cargo vessel, the *Inge Toft*, toward the Port Said entrance of the Suez Canal. As the ship approached, the Israeli radio and press speculated anxiously on whether it would succeed in passing through the canal. It was as if they were daring us to stop the ship. Actually, they knew we would, for it has been our stated policy since 1948 not to allow Israeli cargoes through the canal, either in ships of their own flag or in chartered bottoms. Yet when the vessel was refused transit a great cry of protest and surprise arose in Israel.

CONTINUED



**"OK, then, we'll be there  
about 4 on Wednesday!"**

Invited to visit relatives or friends this summer? Call them Long Distance before you start on your trip. They'll appreciate hearing from you before you leave.

Calling ahead is such an easy, pleasant way to settle all the details of a visit. And it's a friendly, considerate thing to do. When you travel, use Long Distance.

### Long Distance rates are low

Here are some examples:

Cleveland to Pittsburgh . . . . .	45¢
Des Moines to Chicago . . . . .	75¢
Washington, D.C. to Boston . . . . .	85¢
Miami to St. Louis . . . . .	\$1.25
San Francisco to New York . . . . .	\$2.00

These are the Station-to-Station rates for the first three minutes, after 6 p.m. and all day Sunday. Add the 10% federal excise tax.

**BELL TELEPHONE SYSTEM**

CALL BY NUMBER. IT'S TWICE AS FAST.





# Stop Bad Breath with Colgate

WHILE YOU **Fight Tooth Decay All Day!**



Brushing with Colgate helps give the surest protection all day long! Because of all leading toothpastes, only Colgate contains Gardol!

**FIGHTS BOTH BAD BREATH AND TOOTH DECAY ALL DAY!**



COLGATE WITH GARDOL FIGHTS BOTH  
BAD BREATH AND TOOTH DECAY ALL DAY

Colgate with Gardol is backed by published results of 2-year clinical research on the reduction of tooth decay. And of all leading toothpastes,† only Colgate contains Gardol to form an invisible, protective shield around your teeth that fights decay all day. Colgate stops mouth odor all day for most people, too! Ask your dentist how often to brush your teeth. And remember! Nothing takes the place of brushing—and nothing brushes better than Colgate!



Same wonderful flavor  
in the tube or new  
aerosol container!



World's Largest Selling Toothpaste

31¢ 53¢ 69¢ 83¢

98¢

†TOP 100 BRANDS IN THE U.S. COLGATE, GARDOL, AND COLGATE ARE TRADE MARKS FOR SODIUM N-LAURYL SULFOSINATE. © 1974, COLGATE-PALMOLIVE COMPANY

**Colgate Dental Cream with Gardol CLEANS YOUR BREATH while it CLEANS YOUR TEETH!**



What is involved here is not merely a question of freedom of navigation. During and before the Palestine war, the Israelis drove hundreds of thousands of Arabs from Palestine. These people and their descendants, who now number nearly a million, are still refugees despite a series of U.N. resolutions which provided that they must be permitted to return to their homes and must be given compensation for their losses. Now Israel wants to use the canal to transport the commodities which she has produced on land from which the rightful owners have been driven. Naturally we cannot allow that.

There is another reason why we must bar Israel's use of the canal. Since a state of war has existed between us and Israel since 1948, we have the clear right under the Constantinople Convention of 1888 to protect both our country and the canal from hostile acts which any Israeli vessel might choose to undertake.

The Israelis knew very well that we would stop the *Inge Tost*. I believe their main reason for sending the ship was a devious one: they were disturbed at the improvement of relations between the U.S. and the Arab countries, particularly the U.A.R., and they sought with the *Inge Tost* to raise an issue which would drive a new wedge between the U.A.R. and the West.

### Needed: strong economic sinews

**A**SIDE from our international difficulties we in the U.A.R. have enough complex problems at home to keep us busy for generations. These domestic problems are as important to us as the international ones. For at the heart of the concept of Arab nationalism is the fundamental requirement that it must provide material well-being for its people. Without strong economic sinews, the spiritual, cultural and political aspirations of Arab nationalism will not endure.

At home in the U.A.R. the great problem is that of keeping up economically with the needs of a population that increases by 2½% to 3% every year. That is a large task by itself. But in order to give the people a better standard of living and better education, to give them the rights and dignities of a real democracy, we must do far more.

I am proud to say that we have made considerable economic progress in the last five years. We have raised the national income at a rate of about 4½% a year even though these years included the Suez crisis and the Western economic blockade that followed it.

During this period we succeeded in raising the industrial production of the Egyptian region of the U.A.R. by 74% and agricultural production by 14%. If these figures seem out of balance, that is because increasing the area of arable land in Egypt is extremely difficult. Traditionally our country has depended largely upon the Nile for water to make the land productive. The area watered by the Nile cannot be significantly increased until completion of our High Dam project at Aswan, which we are now beginning with Russian assistance. When the High Dam is built it will add another two million acres of arable land to the six million we now cultivate.

We are not, however, depending entirely upon the High Dam to increase our agricultural potential. We have been drilling deep artesian wells in the desert west of the Nile—they go down 1,500 feet in some areas—and these have already created 100,000 newly fertile acres.

In another desert area, a vast depression called the New Valley, this well-drilling technique offers the brightest of all prospects for increasing our agricultural potential. There our army engineers have found reserves of subsurface water sufficient to irrigate three million acres. They believe that the water, which comes underground from the Congo valley, may be enough to irrigate six million acres, doubling our present arable acreage.

There was a time when virtually the only industry in Egypt was spinning and textile manufacture, converting our fine Egyptian cotton into threads and fabrics. As a result of our first five-year plan, we are now making many things that were never made in Egypt before. We are making tires and exporting them. We are building radios, both transistor and vacuum tube types. We are already building and selling refrigerators, gas stoves, bicycles and washing machines. We have a plant making paper from rice straw. Even such seemingly insignificant items as pencils, staplers and metals for household use are now produced in our own plants.

In one way we can thank the British, French and Israelis for our increased production of consumer goods. The Suez aggression and the hard currency crisis of the economic blockade forced us to make these things for ourselves instead of importing them. We even succeeded in producing spare parts for British machines we already had.

Making these goods for ourselves has produced many benefits. For one thing, we have created 150,000 new industrial jobs. For another, we are saving almost \$90 million a year in hard currency which otherwise would have gone for imports.

Less dramatically perhaps, but with even more importance for the

## How I retired in 15 years with \$300 a month

"Back in 1944, I was living in a rut. It was almost as if the few miles between our apartment in Pelham and my desk in New York City were the whole world. I never dreamed that now—in 1959—I'd be financially independent, living in year-round sunshine—with time to enjoy it.

"Today I'm getting an income of \$300 a month, each month, every month. It'll keep coming as long as I live. Yet I grew up in the depression. I had no training at investments.

"What got me started? Actually, it was a booklet I got in the mail. For a long time I'd been reading advertisements which told about people who had retired. I'll admit I was skeptical. *Sounds wonderful, but there's a catch, I thought. What does it cost?*

"Then, one Sunday afternoon early in February, I was figuring up my income taxes. Up, up they were going. And that was the moment when I realized how little I held on to, out of all that I earned. What I needed, I thought, was an automatic way to put aside money for the future. If I left it to chance, there just wouldn't be any.

"So that day I looked up one of the ads I'd seen for the Phoenix Mutual Life Insurance Company. I clipped the coupon, filled it in and put it in the mail. The next week, I got a booklet in the mail, 'How to Retire.'

"That booklet taught me a lot. It told how a man of forty could retire in fifteen years—with absolute assurance that he would get an income every month, all his life. It told how a man could take care of his family and his own retirement—both. It told how a man could start with a certain plan in mind and change it as his situation changed. It was the only way to get an income guaranteed for life.

"I did a lot of thinking, then. In fifteen years, whether I planned to retire or not, I'd be fifteen years older. I ought to be free to do what I wanted to do—retire, if that was what it was. The right plan for me had to be something regular—something that I paid for as regularly as I paid the mortgage and grocery bills. Soon after, I applied and qualified for my Phoenix Mutual Retirement Income Plan.

"I've always been glad. And all those fifteen years it was a pleasure to know that I could do what I actually did this January—retire, sell the house and start a new kind of life in Florida.



Security? I have more than our company president!"

### Send for Free Booklet

This story is typical. Assuming you start at a young enough age, you can plan to have an income of from \$50 to \$300 a month or more—beginning at age 55, 60, 65 or older. Send the coupon and receive, by mail, without charge, a booklet which tells all about Phoenix Mutual Plans. Similar plans are available for women and for employee pension programs. Don't delay. Send for your copy now.

## PHOENIX MUTUAL Retirement Income Plan

GUARANTEES YOUR FUTURE

OVER 100 YEARS  
OF LIFE INSURANCE PROTECTION  
FOR FAMILIES AND BUSINESS

Phoenix Mutual Life Insurance Co.  
308 Elm Street, Hartford 15, Conn.

Please mail me, without obligation, your free 24-page booklet showing new retirement income plans.

Plan for women ☐ Plan for men ☐

Name \_\_\_\_\_  
Date of Birth \_\_\_\_\_  
Business Address \_\_\_\_\_  
Home Address \_\_\_\_\_



**NOW play your favorite songs in minutes...without a single lesson!**

# MAGNUS

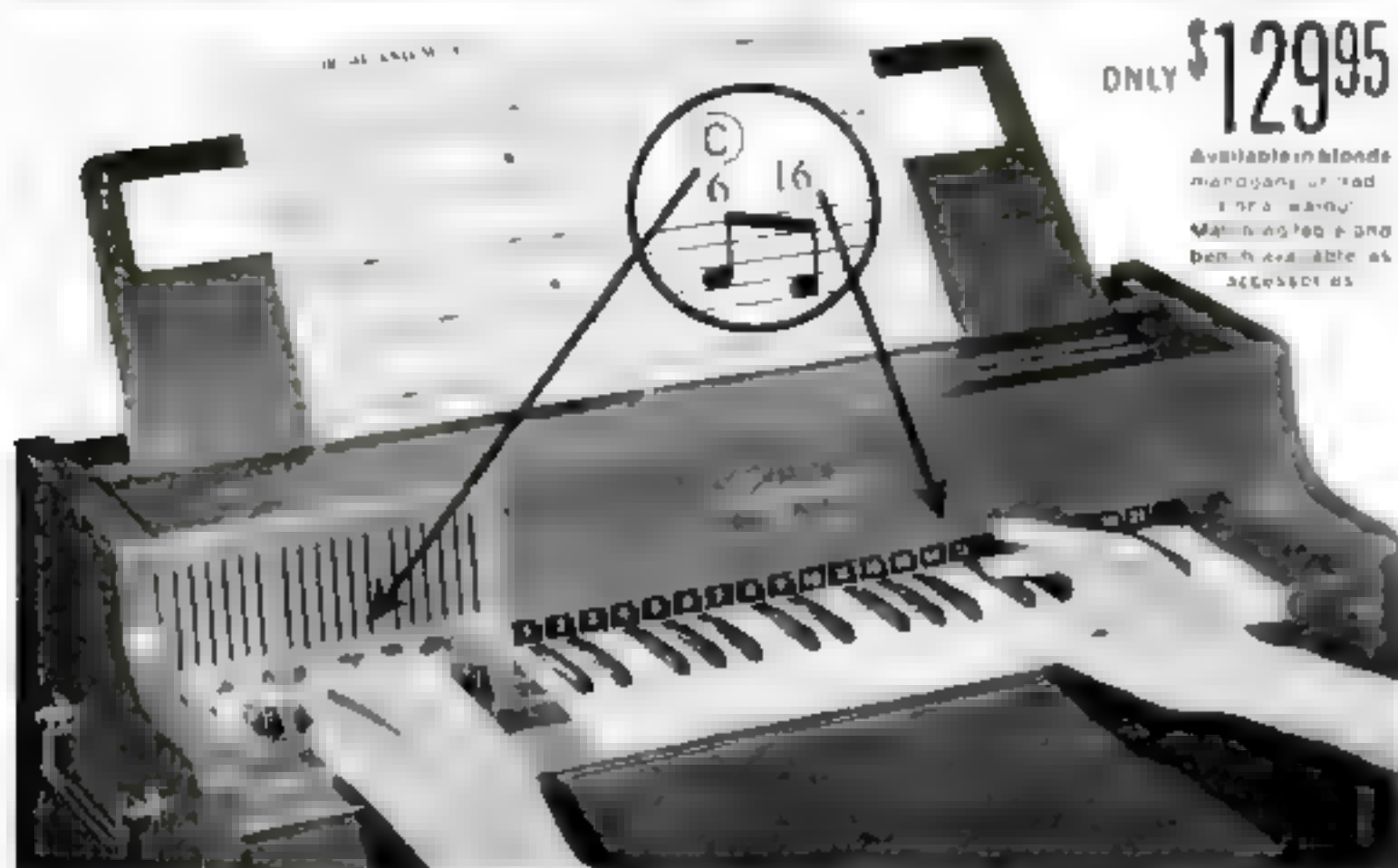
ELECTRIC CHORD ORGAN



Magnus is created for the 9 out of 10 people who can't read a note of music yet would love to be able to play their favorite songs... and play them well. No lessons, no practice. Magnus song books are numbered, the Magnus keyboard is numbered... merely match these numbers and you will play any-

thing from popular, to hymns, to the classics instantly... rich, mellow organ music that you never before dreamed possible. Flawless chassis workmanship embraced in beautiful hardwood cabinetry makes Magnus truly an outstanding value. Write today for free color literature.

There's an Appliance, Department, Furniture or Music Store in your neighborhood that sells Magnus.



ONLY \$129.95

Available in blonde mahogany or red pine wood. Matching top and bench available at accessory price.

MAGNUS ORGAN CORP., 100 Naylor Ave., Livingston, N. J. Dept. 52

## SCIENCE DISCOVERS WAY TO "WIPE OFF" ATHLETE'S FOOT

New saturated pads wipe athlete's foot fungi from cracks between toes with prescription type, quick-drying lotion. Regular use effectively blocks re-infection.

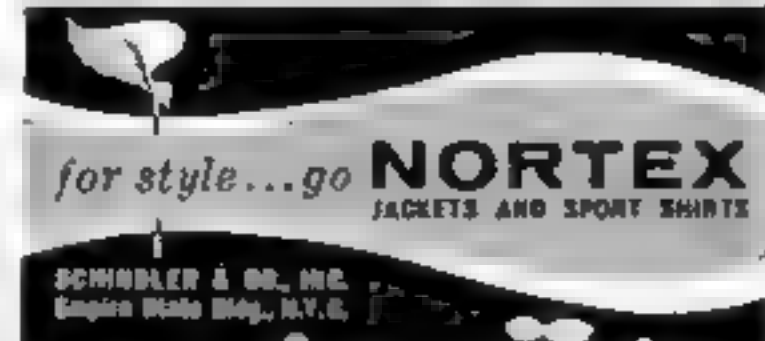
New York, N. Y. (Medical Special) Now you can actually wipe off the fungi that cause itching, peeling, Athlete's Foot with a new kind of throw-away pads. The pads are saturated with a prescription type lotion that kills Athlete's Foot fungi on contact.

The active ingredients in the lotion are a combination of those prescribed by doctors, but until now not available in one formula. Athlex is more convenient than creams, powders or liquids. Just wipe between cracked, peeling toes and itching, peeling

and discomfort are relieved... literally wiped away. Then you throw the pad away.

Painful, stubborn cases begin to heal instantly.

Your feet feel cool, comfortable, clean. When regularly used, after healing, re-infection is effectively blocked. This new way to wipe off Athlete's Foot and help keep it away is called Athlex. New Athlex Athlete's Foot pads are now available at all drug counters without prescription. Associated Products, Inc., Chicago, Illinois.



## NASSER CONTINUED

future, we are building a foundation for heavy industry. In 1952 Egypt's production of electricity was 500 million kilowatts. This year we have achieved a total four times as great. And in December of this year, utilizing the existing facilities at the Aswan Dam, the output will double again to four billion kilowatts. Some of this additional power will serve us in the production of fertilizers which are greatly needed by our intensely developed agricultural establishment.

In the expansion of our cement industry we have become an exporter, and the U.S. is among our customers. Never before a steel producer, Egypt is now making 250,000 tons a year, and our oil production has risen from two million tons in 1954 to 3.2 million this year.

In September this year the first Egyptian-made trucks and tractors and omnibuses will come off the production line. At first these vehicles will be assembled from parts only 40% of which are fabricated in Egypt. But within five years they will be 95% Egyptian-made.

I submit that this is significant progress. But also I confess it is not enough. We must do far more. That is the great problem for underdeveloped countries pushing forward to take a place with the developed nations. Until a solid industrial base is created, the gap between the capacity of the underdeveloped nation and that of the developed nation grows constantly greater.

At the present time we are engaged in drawing up a new five-year plan. We are determined to bring about something which might almost be called an industrial miracle. In the next five years we must create 800,000 new jobs in the Egyptian region alone. In the next ten years we propose to double the national income of the entire U.A.R., both the Syrian and the Egyptian regions.

The process of industrial growth in the Egyptian region is seven years old and therefore relatively well advanced. Syria has been united with Egypt only since 1957 and there is much to be done there. Last year the U.A.R. completed an industrial survey of the Syrian region and the resulting plan is now being put into effect. The basic program includes the establishment of textile, fertilizer, paper, cellulose and cement industries and the modernization and extension of the Syrian railroad system.

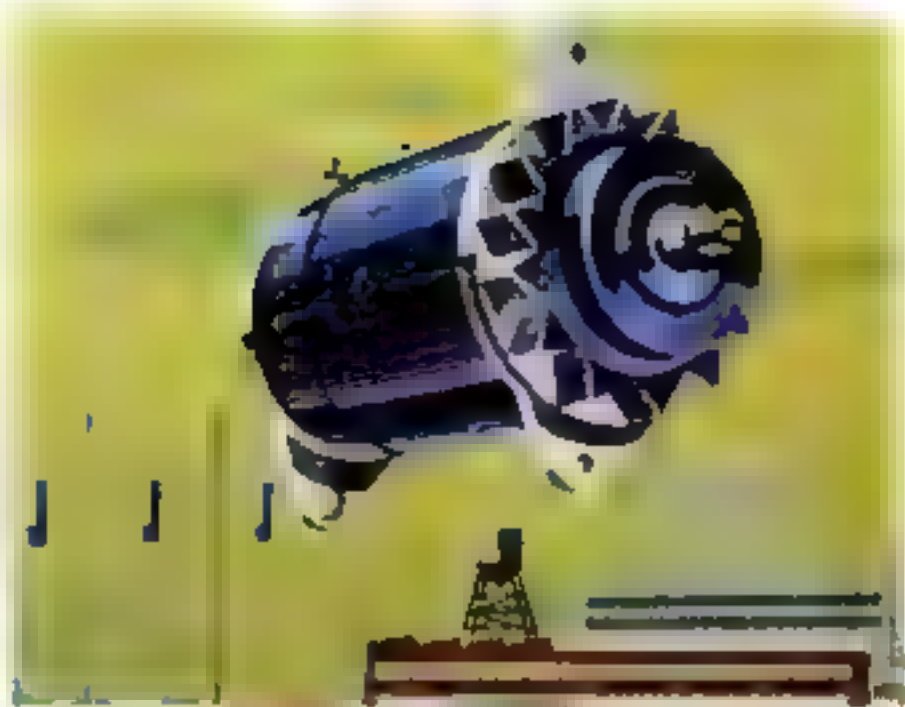
The U.A.R. development program will require an enormous effort. In the Egyptian region it will require new capital investment at the rate of nearly \$600 million a year for the first five years and in Syria nearly \$150 million a year. But we will do it because we must.

The U.A.R. is building for peace and the prosperity of its people. It is not building for war. We said at the beginning of the revolution that our intention was to raise the standard of living and to bring to the people a new era of social and economic justice. And that is what we are doing.



INDUSTRIAL PROGRESS in Egypt is exemplified by new iron and steel works at Helwan, outside Cairo, which Nasser (center) opened a year ago.





# Dependability is built into your Chevrolet part by part!

Few people would guess that it takes up to **7 miles** of wiring, specially prepared, processed and preassembled into your Chevrolet's vital electric life line, to permit dependable, efficient functioning of such parts as: distributor—spark plugs—generator—starter—lights—coil—regulator. Each is designed and manufactured to meet Chevrolet's traditionally high-quality standards of original equipment and to work together as a team in your Chevrolet.

When replacement parts are needed, use genuine Chevrolet parts designed to fit right—function right—in your Chevrolet. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

Ask for

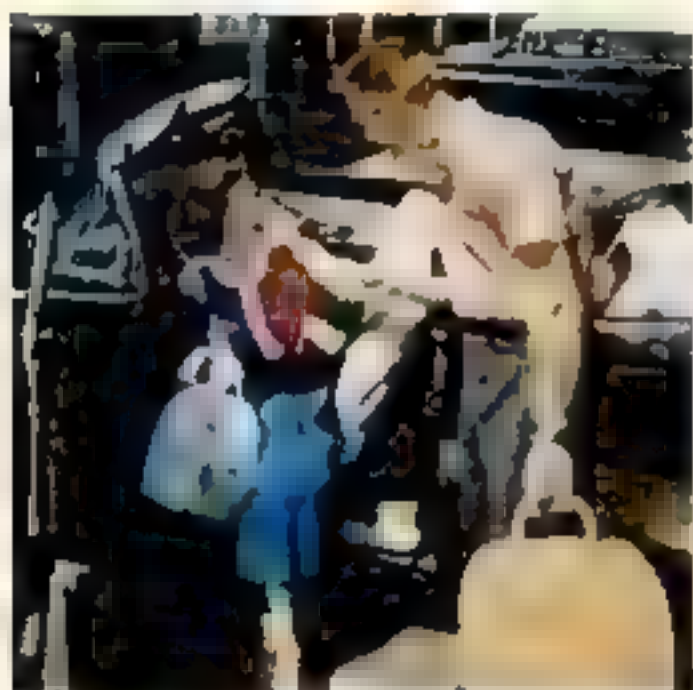


available at your Chevrolet dealer's and leading independent garages and service stations.





# COOL OFF... HAVE FUN... GO BOWLING!



While summer sizzles, millions relax in cool, air-conditioned "Magic Triangle" bowling centers. Here's Carol Christensen and date—headed for cool fun!



Look who's here—Joan and Bill! Bowling's even more fun when you have a group—and what a stylish group *this* is—fitted out with AMF bowling accessories!



Strike! No wonder bowling's so popular today. Free instruction makes learning easy, and AMF's "Magic Triangle" Signaling Unit makes bowling more fun!



Refreshment time—a real treat in any "Magic Triangle" bowling center. The finest in food and best in service add a crowning touch to your bowling pleasure!

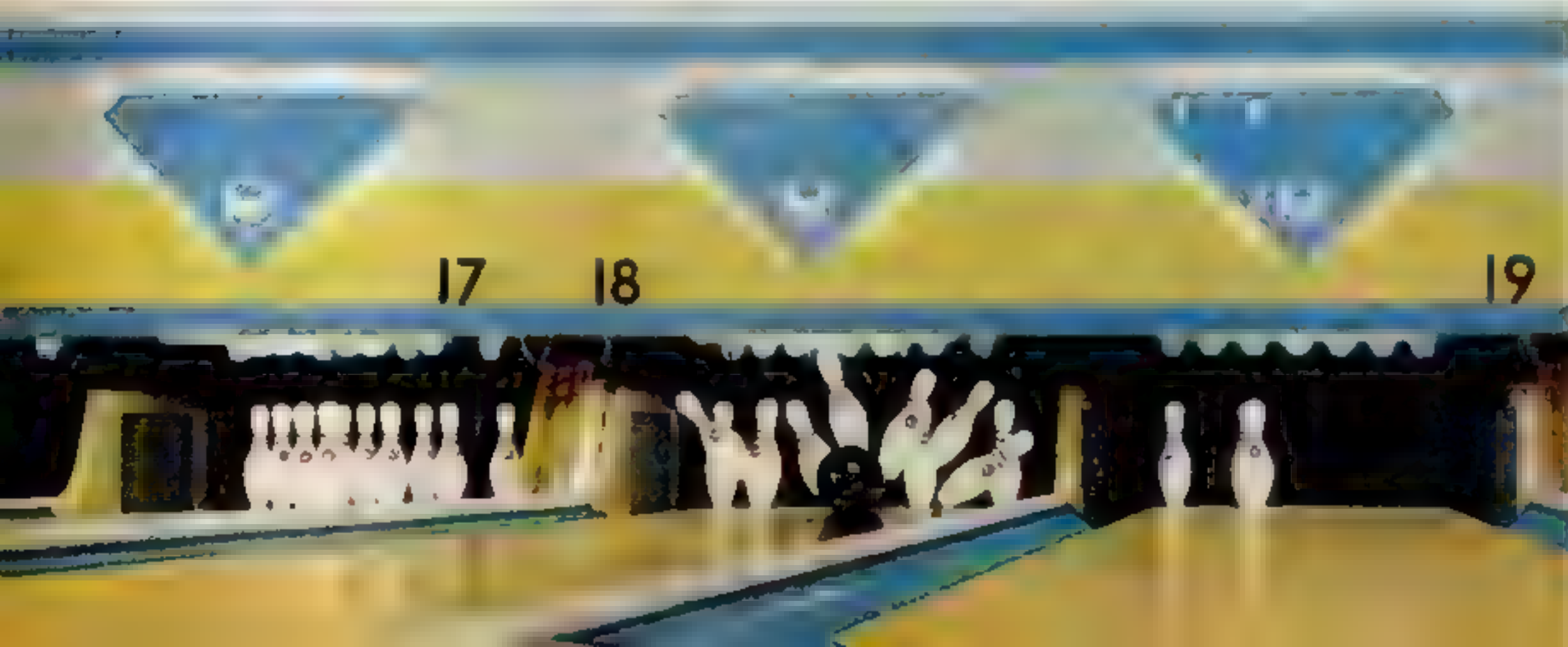
## And bowl where you see the "Magic Triangle"—for bowling at its best!

Look down the lanes in today's better bowling centers, and you will see AMF's "Magic Triangle" Signaling Unit—an exclusive

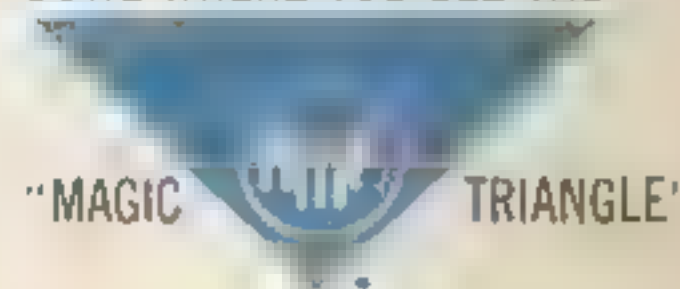
feature of AMF Automatic Pin-spotters. This amazing device signals your strikes, makes bowling more exciting than ever

It also tells you what pins are left standing after the first ball is rolled, helps you make more spares for better bowling scores!

AMF Automatic Pin-spotters are the *only* automatics with the "Magic Triangle" Signaling Unit. For the best in bowling...



BOWL WHERE YOU SEE THE



AMF Always Means the Finest

**AMF PINSPOTTERS INC.**

5th Floor • AMF CAN  
MACHINE & FOUNDRY COMPANY  
AMF Bldg • 26 Madison Ave  
New York 10 • N.Y.

TRADE MARK • SERVICE MARK OF AMF





**ON THE TRAIL** Alice Ann Cantrell follows covered wagon as the wagon train nears the top of the 5,000-foot Hogshaw Gap in the southern Smokies.

## A WAGON TRAIN HOLIDAY

**Two towns play at pioneering in a three-day trek across Smoky Mountains**

Ninety covered wagons ground ruts in the dirt trail and 500 outriders raised clouds of dust. The wagon master urged on stragglers but stopped to smile at the pretty girls who rode after the wagons. But the pioneering was all play-acting.

It started last year when the citizens of Tellico Plains, Tenn. (pop. 833) and Murphy, N.C. (pop. 2,433) put on a wagon train trip from Tellico to Murphy to prove to their state governments that the road between them was so bad

they could not attract tourists. It hasn't got them the road yet but they had such a good time that they decided to do it again just for fun. This year over 1,000 people showed up in converted farm wagons, beards and costumes for the 42-mile, three-day trek. They had it softer than the real pioneers. Their flapjacks were cooked on gasoline stoves. The beef stews came out of cans. And the wagon master used a walkie-talkie to organize his three-mile-long wagon train.





**TUCKERED OUT**, Billy Malls, Jr., sleeps in his father's arms at the end of a long and exciting day.



**DRINKING DEEP**, Bill Neal, 16, sprawls on a rock and sips cold water from a fast-flowing creek.



← **TAKING IT EASY**, ten-year-old Danny Rice lies back on his horse waiting for wagons to catch up.

## WAGON TRAIN CONTINUED



**FRINGE-TOPPED SURREY** was used by Charles Hall of Tellico Plains to transport his family. Hall

built the surrey just for the trip, putting it together from old parts he bought from farmers in the area.



**NEAR TRAIL'S END** wagon train winds into valley. Leading is wagon master, Captain Frank Swan.





**Name's Smith, not Daddy Warbucks!** I could've saved \$26 on car insurance with State Farm—even after paying my Lifetime Membership Fee. My renewal saving would now be \$41 a year!\* ¶ Our members save \$12, \$30, as high as \$125 a year compared to what many people pay.\*\* We keep our rates low by aiming to insure careful drivers only. Yet you can't get better protection or faster, fairer claim service. Can you qualify? Four out of five average drivers can. See the friendly, capable State Farm man in your neighborhood. Look under "State Farm Insurance" in the Yellow Pages. **STATE FARM MUTUAL** Automobile Insurance Company...world's largest. Home Office: Bloomington, Illinois



\*Based on Case No. 13906, details on request.

\*\*In Texas, substantial savings have been returned to eligible members in the form of dividends.

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## TACKLING AN ETERNAL QUESTION

The boys who had come to listen to the kilted military band in a Toronto park did not know that the question that was bothering them was a classic one. They saw simply a brand-new puzzle that needed firsthand investigation, like finding out if the refrigerator light really goes out when the door closes. Photographer Michel Lambeth took this picture of them as they tried to discover if Scotsmen wear anything under their colorful kilts. Then when he asked them, "Do they?" the boys just giggled and ran away.







## Calvert has more Power to Please

...because it's the whiskey only the Hand of Skill can blend!

This is the golden hour! You finish your drink and pour yourself a little more Calvert Reserve. This is the life! Gone are the earth-bound worries—you're living in a sunny

world of laughter, friendship and fun. Afloat or ashore, Calvert has everything you want in your whiskey: full strength, easy-going taste ...more power to please. Sound good? Try it!

## Calvert Reserve





A new idea in smoking!

# Salem refreshes your taste



- menthol fresh
- rich tobacco taste
- modern filter, too

A green world of Springtime . . . silent and serene. This is a world where Salem belongs, for Salem refreshes your taste just as Springtime refreshes you. Through its pure white filter flows the freshest, cleanest taste in cigarettes. Try Salem. Discover a new surprise softness that lets you smoke refreshed with every puff . . . with every pack!

Created by R. J. Reynolds Tobacco Company.